Zoom-Zoom

All children instinctively know it.

A few adults still remember it.

One unique car company refuses to outgrow it.

In grown-up language, it means the exhilaration and

liberation that come from experiencing sheer motion.

But as usual, children put it much better and simply call it " Go Zoom-Zoom."

We practice it every day.

It's why we build the kind of cars we do.

Zoom-Zoom.

Can we re-awaken it in you today?

A Word to Mazda Owners

Thank you for choosing a Mazda. We at Mazda design and build vehicles with complete customer satisfaction in mind.

To help ensure enjoyable and trouble-free operation of your Mazda, read this manual carefully and follow its recommendations.

An Authorized Mazda Dealer knows your vehicle best. So when maintenance or service is necessary, that's the place to go.

Our nationwide network of Mazda professionals is dedicated to providing you with the best possible service.

We assure you that all of us at Mazda have an ongoing interest in your motoring pleasure and in your full satisfaction with your Mazda product.

Mazda Motor Corporation
HIROSHIMA, JAPAN

Important Notes About This Manual
Keep this manual in the glove compartment as a handy reference for the safe and enjoyable use of your Mazda. Should you resell the vehicle, leave this manual with it for the next owner.

All specifications and descriptions are accurate at the time of printing. Because improvement is a constant goal at Mazda, we reserve the right to make changes in specifications at any time without notice and without obligation.

Air-Conditioning and the Environment
Your Mazda's genuine air conditioner is filled with a refrigerant that has been found not to damage the earth's ozone layer. If the air conditioner does not operate properly, consult an Authorized Mazda Dealer.
Perchlorate
Certain components of this vehicle such as [air bag modules, seat belt pretensioners, lithium batteries,…] may contain Perchlorate Material-- Special handling may apply for service or vehicle end of life disposal. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Please be aware that this manual applies to all models, equipment and options. As a result, you may find some explanations for equipment not installed on your vehicle.

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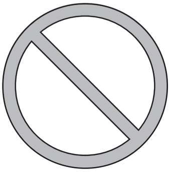
Nov. 2016 (Print1)

How to Use This Manual

We want to help you get the most driving pleasure from your vehicle. Your owner's manual, when read from cover to cover, can do that in many ways.

Illustrations complement the words of the manual to best explain how to enjoy your Mazda. By reading your manual, you can find out about the features, important safety information, and driving under various road conditions.

The symbol below in this manual means "Do not do this" or "Do not let this happen".



Index: A good place to start is the Index, an alphabetical listing of all information in your manual.

You'll find several WARNINGs, CAUTIONs, and NOTEs in the manual.

⚠ WARNING

A WARNING indicates a situation in which serious injury or death could result if the warning is ignored.

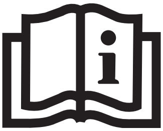
⚠ CAUTION

A CAUTION indicates a situation in which bodily injury or damage to your vehicle, or both, could result if the caution is ignored.

NOTE

A NOTE provides information and sometimes suggests how to make better use of your vehicle.

The following symbol, located on some parts of the vehicle, indicates that this manual contains information related to the part.
Please refer to the manual for a detailed explanation.



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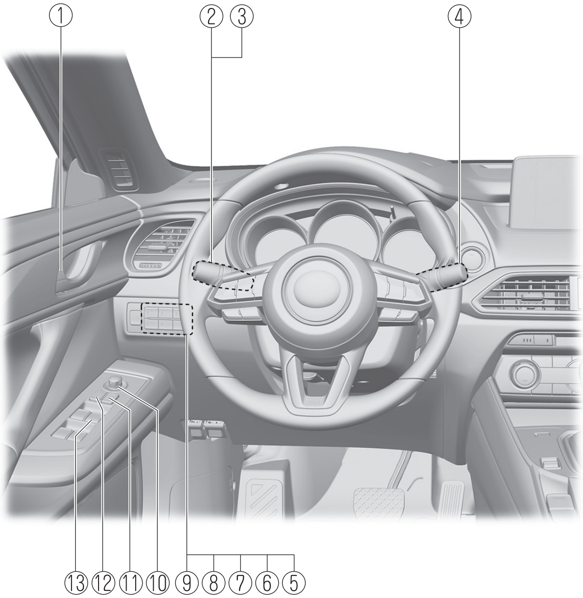
Interior Overview

Interior Equipment (View A)



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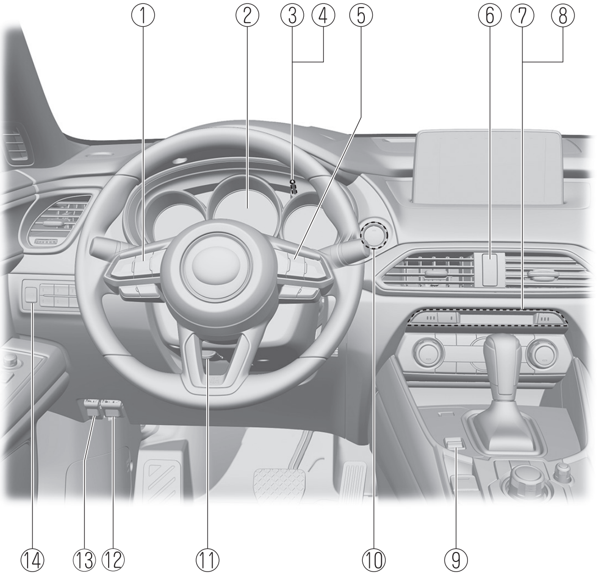
The equipment and installation position varies by vehicle

Interior Overview



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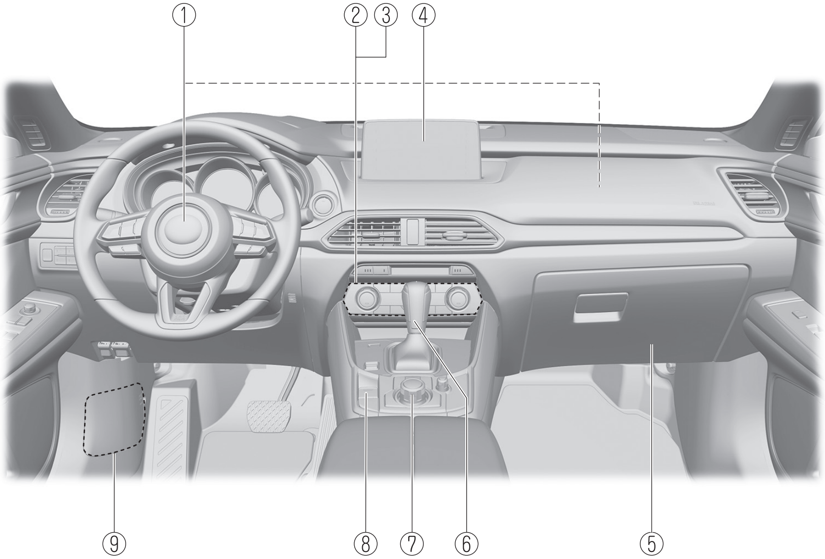
Interior Overview

Interior Equipment (View B)



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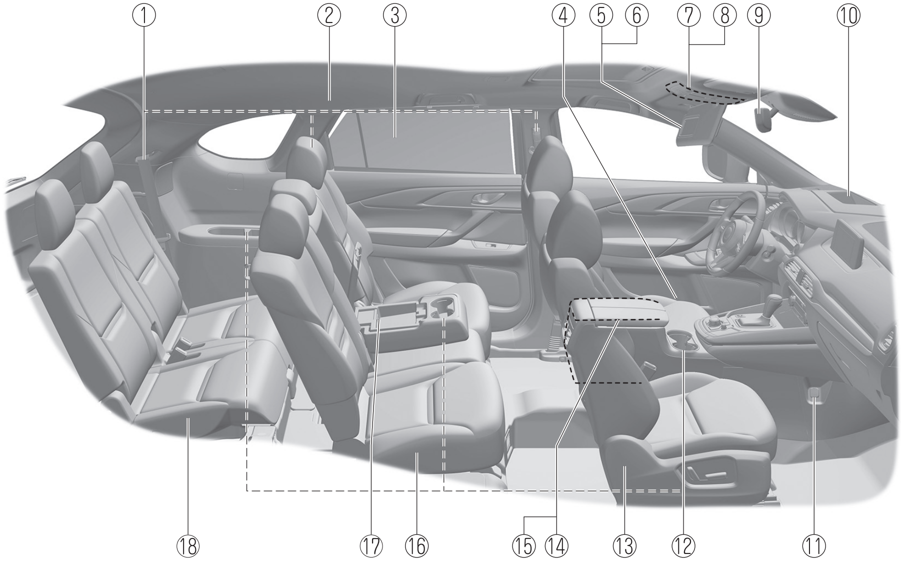

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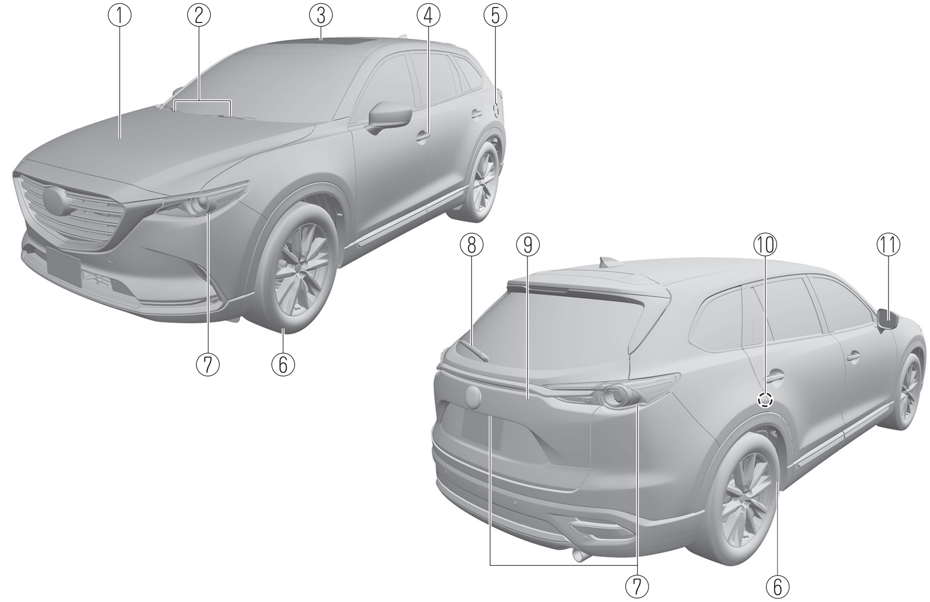
The equipment and installation position varies by vehicle

Exterior Overview



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2 Essential Safety Equipment

Important information about safety equipment, including seats, seat belt system, child-restraint systems and SRS air bags.

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*Some models.

Seat Precautions

⚠ WARNING

Make sure the adjustable components of a seat are locked in place:

Adjustable seats and seatbacks that are not securely locked are dangerous. In a sudden stop or collision, the seat or seatback could move, causing injury. Make sure the adjustable components of the seat are locked in place by attempting to slide the seat forward and backward and rocking the seatback.

Never allow children to adjust a seat:

Allowing children to adjust a seat is dangerous as it could result in serious injury if a child's hands or feet become caught in the seat.

Do not drive with the seatback unlocked:

All of the seatbacks play an important role in your protection in a vehicle. Leaving the seatback unlocked is dangerous as it can allow passengers to be ejected or thrown around and baggage to strike occupants in a sudden stop or collision, resulting in severe injury. After adjusting the seatback at any time, even when there are no other passengers, rock the seatback to make sure it is locked in place.

Adjust the driver's seat only when the vehicle is stopped:

Adjusting the driver's seat while the vehicle is moving is dangerous. The driver could lose control of the vehicle and have an accident.

Do not modify or replace the front seats:

Modifying or replacing the front seats such as replacing the upholstery or loosening any bolts is dangerous. The front seats contain air bag components essential to the supplemental restraint system. Such modifications could damage the supplemental restraint system and result in serious injury. Consult an Authorized Mazda Dealer if there is any need to remove or reinstall the front seats.

Do not drive with damaged front seats:

Driving with damaged front seats, such as seat cushions torn or damaged down to the urethane, is dangerous. A collision, even one not strong enough to inflate the air bags, could damage the front seats which contain essential air bag components. If there was a subsequent collision, an air bag may not deploy which could lead to injuries. Always have an Authorized Mazda Dealer inspect the front seats, front seat belt pretensioners and air bags after a collision.

Do not drive with either front seats reclined:

Sitting in a reclined position while the vehicle is moving is dangerous because you do not get the full protection from seat belts. During sudden braking or a collision, you can slide under the lap belt and suffer serious internal injuries. For maximum protection, sit well back and upright.

Do not recline a second-row seatback when the third-row seat is occupied:

Reclining the second-row seatback when the third-row seat is occupied is dangerous. Because the clearance in the third-row seat is limited, occupants in the third-row seat could be hurt seriously on a reclined second-row seatback.

Do not place an object such as a cushion between the seatback and your back:

Putting an object such as a cushion between the seatback and your back is dangerous because you will be unable to maintain a safe driving posture and the seat belt cannot function at its full capacity in a collision, which could result in a serious accident, injury or death.

Do not place objects under the seat:

The object could get stuck and cause the seat to not be fixed securely, and result in an accident.

Do not stack cargo higher than the seatbacks:

Stacking luggage or other cargo higher than the seatbacks is dangerous. During sudden braking or a collision, objects can fly around and become projectiles that may hit and injure passengers.

Make sure luggage and cargo is secured before driving:

Not securing cargo while driving is dangerous as it could move or be crushed during sudden braking or a collision and cause injury.

Never allow a passenger to sit or stand on the folded seatback while the vehicle is moving:

Driving with a passenger on the folded seatback is dangerous. Allowing a child to sit up on the folded seatback while the vehicle is moving is particularly dangerous. In a sudden stop or even a minor collision, a child not in a proper seat or child-restraint system and seat belt could be thrown forward, back or even out of the vehicle resulting in serious injuries or death. The child in the baggage area could be thrown into other occupants and cause serious injury.

CAUTION

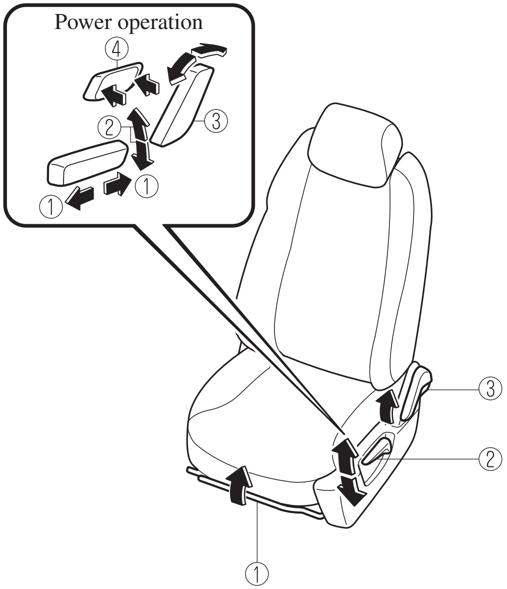
- *When operating a seat, be careful not to put your hands or fingers near the moving parts of the seat or on the side trim to prevent injury.*
- *When moving the seats, make sure there is no cargo in the surrounding area. If the cargo gets caught it could damage the cargo.*
- ***(Manual Seat)***
  When moving the seats forward and rearward or returning a rear-reclined seatback to its upright position, make sure you hold onto the seatback with your hand while operating. If the seatback is not held, the seat will move suddenly and could cause injury.

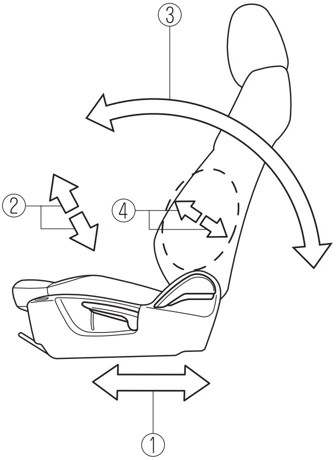
NOTE

- *When returning a rear seat to its original position, place the seat belt in its normal position. Verify that the seat belt pulls out and retracts.*
- ***(Power Seat)***
  The seat-bottom power adjustment is operated by motors. Avoid extended operation because excessive use can damage the motors.
  - *To prevent the battery from running down, avoid using the power adjustment when the engine is stopped. The adjuster uses a large amount of electrical power.*
  - *Do not use the switch to make more than one adjustment at a time.*

Front Seat

▼Seat Operation





① **Seat Slide**

(Manual Seat)

To move a seat forward or backward, raise the lever and slide the seat to the desired position and release the lever.

Make sure the lever returns to its original position and the seat is locked in place by attempting to push it forward and backward.

(Power Seat)

To slide the seat, move the slide lifter switch on the outside of the seat to the front or back and hold it. Release the switch at the desired position.

② **Height Adjustment (Driver's Seat)**

(Manual Seat)

To adjust the seat height, move the lever up or down.

(Power Seat)

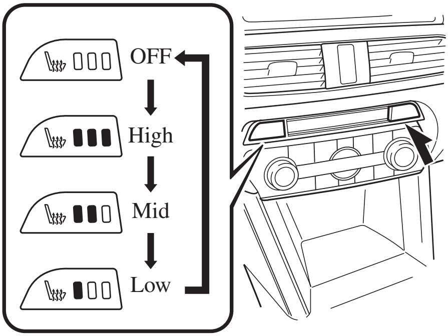
To adjust the seat height, move the switch up or down.

③ **Seat Recline**
(Manual Seat)
To change the seatback angle, lean forward slightly while raising the lever. Then lean back to the desired position and release the lever.
Make sure the lever returns to its original position and the seatback is locked in place by attempting to push it forward and backward.
(Power Seat)
To change the seatback angle, press the front or rear side of the reclining switch. Release the switch at the desired position.

④ **Lumbar Support Adjustment (Driver's Power Seat)**
To increase the seat firmness, press and hold the front part of the switch to the desired position, then release it.
Press the rear part of the switch to decrease firmness.

▼Seat Warmer*

The front seats are electrically heated. The ignition must be switched ON.
Press the seat warmer switch while the ignition is switched ON to operate the seat warmer. The indicator lights turn on to indicate that the seat warmer is operating.
The mode changes as follows each time the seat warmer switch is pressed.



⚠ WARNING

Be careful when using the seat warmer:

The heat from the seat warmer may be too hot for some people, as indicated as follows, and could cause a low-temperature burn.

- *Infants, small children, elderly people, and physically challenged people*
- *People with delicate skin*
- *People who are excessively fatigued*
- *People who are intoxicated*
- *People who have taken sleep-inducing medicine such as sleeping pills or cold medicine*

Do not use the seat warmer with anything having high moisture-retention ability such as a blanket or cushion on the seat:

The seat may be heated excessively and cause a low-temperature burn.

Do not use the seat warmer even when taking a short nap in the vehicle:

The seat may be heated excessively and cause a low-temperature burn.

Do not place heavy objects with sharp projections on the seat, or insert needles or pins into it:

This could cause the seat to become excessively heated and result in injury from a minor burn.

⚠ CAUTION

Do not use organic solvents to clean the seat. It may damage the seat surface and the heater.

NOTE

- *If the ignition is switched off while the seat warmer is operating (High, Mid or Low) and then switched ON again, the seat warmer will automatically operate at the temperature set before switching off the ignition.*
- *Use the seat warmer when the engine is running. Leaving the seat warmer on for long periods with the engine not running could cause the battery power to be depleted.*
- *The temperature of the seat warmer cannot be adjusted beyond High, Mid and Low because the seat warmer is controlled by a thermostat.*

DEP DEALER ePROCESS

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*Some models.

Seats

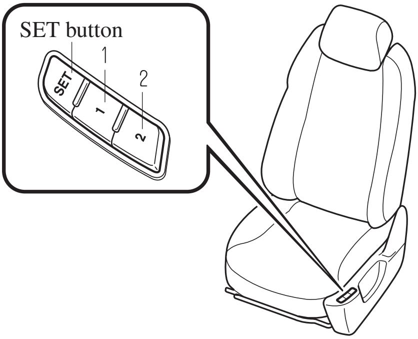
▼Driving Position Memory*

The desired driving position can be called up after programming the position.
The following driving positions can be programmed.

- Driver's seat position (seat slide, height adjustment, seat recline)
  Refer to Seat Operation on page 2-5.
- Active driving display (display position, brightness level, display information)
  Refer to Active Driving Display on page 4-29.

⚠ CAUTION

Do not place fingers or hands around the bottom of the seat while the seat memory function is operating. The seat moves automatically while the seat memory function is operating and fingers or hands could get pinched and injured.



The driving position can be programmed or operated using the buttons on the side of the seat or the key.

NOTE

- *Individual seat positions can be programmed to the two available programming buttons on the side of the driver's seat, plus one seat position for each registered key.*
- *If the vehicle has been serviced and the battery cables disconnected, the programmed seat positions will have been erased. Re-program the seat positions.*

Programming

1. Make sure the parking brake is on.
2. Make sure the selector lever is in the P position.
3. Start the engine.
4. Adjust the seat and the active driving display to the desired driving position.
5. Press the SET button on the seat until a beep sound is heard one time.
6. Perform one of the following settings within 5 seconds of completing step 5 above:
   - **Programming using a button on the side of the seat**
     Press the button you want to program, either button 1 or 2, until a beep sound is heard one time.
   - **Programming using the key**
     Press the key 🔓 button until a beep sound is heard one time.

NOTE

If a beep sound is heard three times, the operation is canceled.

---

*Some models.

To move the driving position to a programmed position

(Using a button on the side of the seat)

1. Make sure the parking brake is on.
2. Make sure the selector lever is in the P position.
3. Start the engine.
4. Press the programming button for the driving position you want to call up (button 1 or 2).
5. A beep sound is heard when the driving position adjustment is completed.

NOTE

- *If the driving position movement is not changed, only the beep sounds.*
- *A seat position can be called up even with the engine not running.*
- *The driving position adjustment is canceled in the following cases:*
    - *Any of the seat adjustment switches is operated.*
    - *The SET button is pressed.*
    - *Programming button 1 or 2 is pressed.*
    - *The key 🔒 button or 🔓 button is operated.*
    - *The vehicle starts moving.*
    - *The active driving display is adjusted.*

(Using a programmed key)

1. Unlock the doors by pressing a request switch or the key 🔓 button.
2. After unlocking the doors, the seat position adjustment begins within 40 seconds of opening the driver's door, and a beep sounds when the operation is finished.
3. Make sure the parking brake is on.
4. Make sure the selector lever is in the P position.
5. Start the engine.
6. The active driving display adjustment begins.

NOTE

- *If there is no driving position movement, a beep is not heard.*
- *The driving position adjustment is canceled in the following cases:*
    - *Any of the seat adjustment switches is operated.*
    - *The SET button is pressed.*
    - *Programming button 1 or 2 is pressed.*
    - *The key 🔒 button or 🔓 button is operated.*
    - *The vehicle starts moving.*
    - *The active driving display is adjusted.*

Erasing programmed driving positions

(Erasing the driving positions programmed to the key)

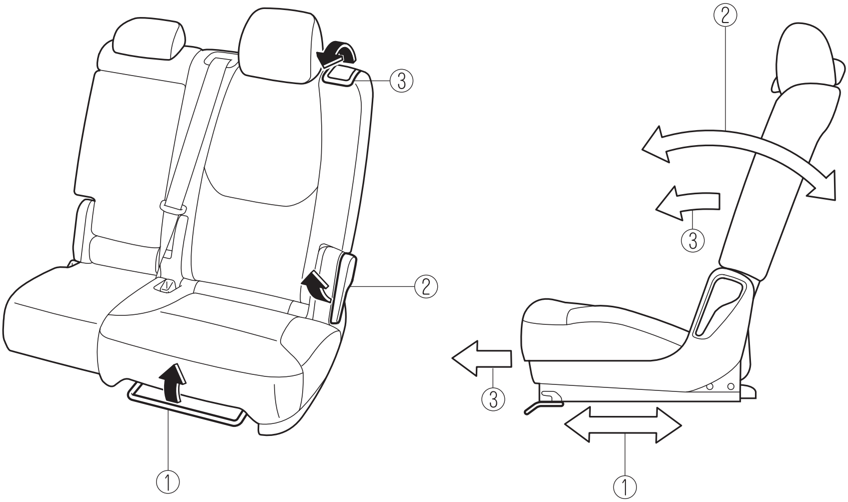
1. Switch the ignition OFF.
2. Press the SET button on the side of the seat until a beep sound is heard one time.
3. After the beep sounds, press the key 🔒 button within 5 seconds until a beep sound is heard one time.

NOTE

If a beep sound is heard three times, the operation is canceled.

Second-Row Seat

▼Seat Operation



①**Seat Slide (Forward-back adjustment)**
To move a seat forward or backward, raise the lever and slide the seat to the desired position and release the lever.
Make sure the lever returns to its original position and the seat is locked in place by attempting to push it forward and backward.

②**Seat Recline**
To change the seatback angle, lean forward slightly while raising the lever. Then lean back to the desired position and release the lever.
The lever can also be used when flattening down the seats.
Refer to How to Split Folding the Second-Row Seats on page 2-13.
Make sure the lever returns to its original position and the seatback is locked in place by attempting to push it forward and backward.

③**Third-Row Seat Access**
To access to the third-row seats, pull up the lever on the side of the head restraint to fold the seatback and slide the seat forward.
Refer to How to Third-Row Seat Access on page 2-11.
Make sure the lever returns to its original position and the seatback is locked in place by attempting to push it forward and backward.

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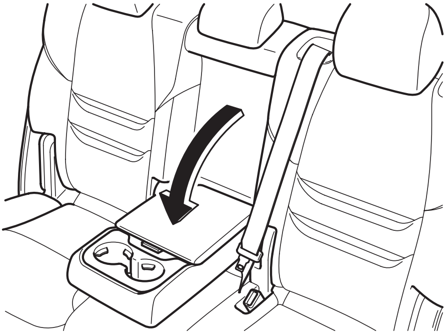
▼Armrest

The armrest in the center of the second-row seatback can be used (no occupant in the center seat) or placed upright.



⚠ WARNING

Never put your hands and fingers around the moving parts of the seat and armrest:

Putting your hands and fingers around the moving parts of the seat and armrest is dangerous as they could get injured.

⚠ CAUTION

When storing the armrest, make sure that any cables connected to the USB power outlets in the armrest box are stored away in the armrest box.
If the cables are not stored away in the armrest box, the cables and connection devices may become damaged when storing the armrest.

▼Third-Row Seat Access

Occupants can get into and out of the third-row seats easily by sliding the second-row seats forward.

⚠ WARNING

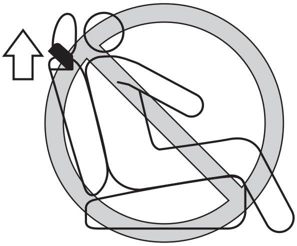
Make sure there is nobody in the second-row seat area before operating the levers:

Not checking the second-row seat area for persons before folding the seatbacks with the levers is dangerous. The second-row seat area is difficult to see from the rear of the vehicle. Operating the levers without checking could cause injury to a person when a seatback suddenly flips forward.

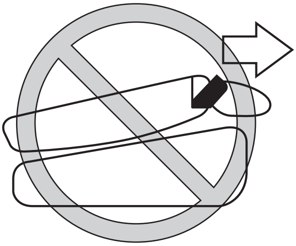
Do not operate the lever on the side of the head restraint under the following conditions:

Operating the lever on the side of the head restraint under the following conditions is dangerous as the seat may move unexpectedly and cause an injury such as a foot getting pinched between the seat and floor.

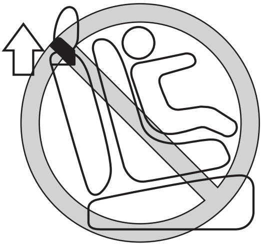
- *Occupant is seated in second-row seat*



- *Second-row seatback is folded forward*

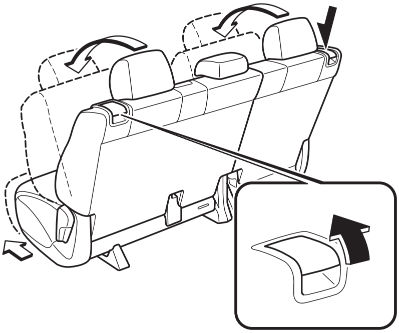


- *Child is seated on child restraint in second-row seat*



Entering/exiting the third-row seat area

Pull up the lever on the side of the head restraint to fold the seatback and slide the seat forward.



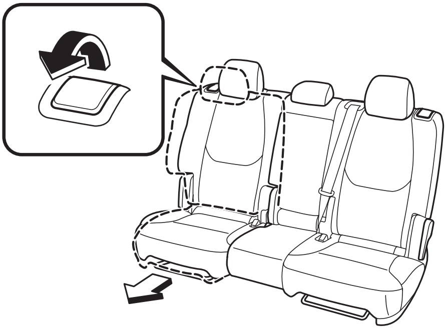
⚠ CAUTION

After entering/exiting the third-row seat area, return the second-row seatback to its upright position and lock it after sliding it rearward. Make sure it is locked by attempting to lightly move it back and forth. Otherwise, it could move unexpectedly and cause injury.

Entering/exiting the third-row seat area with child-restraint system installed (Right-side seat only)

Access to the third-row seats is possible even when a child-restraint system is installed to the second-row seat.

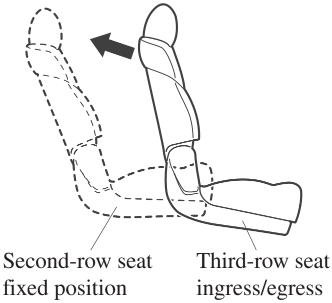
Pull up the lever on the side of the head restraint to lower the front side of the seat and slide the seat forward.



⚠ CAUTION

After entering/exiting the third-row seat area, lock the seat after sliding it rearward.

Make sure it is locked by attempting to lightly move it back and forth. Otherwise, it could move unexpectedly and cause injury.



NOTE

The second-row seat cannot be moved forward while the seat belt is securing the child-restraint system.

▼Split folding the Second-Row Seats

To create a flat luggage compartment space, fold the seatbacks forward.

Folding the seatbacks

⚠ WARNING

Make sure the adjustable components of a second-row seat are locked after folding down the seatback:

A second-row seat that is not securely locked is dangerous. In a sudden stop or collision, the second-row seat could move, causing injury.

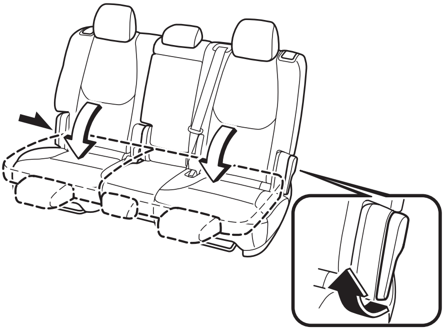
After folding down the seatback of a second-row seat, make sure the adjustable components of the seat are locked in place by attempting to slide the seat forward and backward.

DEP DEALER ePROCESS

CAUTION

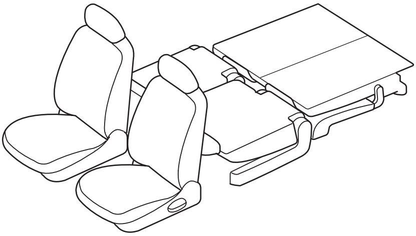
- *When folding the seatback forward, always support the seatback with your hand. If it is not supported by a hand, fingers or the hand raising the lever could be injured.*
- *Check the position of a front seat before folding a second-row seatback. Depending on the position of a front seat, it may not be possible to fold a second-row seatback all the way down because it may hit the seatback of the front seat which could scratch or damage the front seat or its pocket. Remove the head restraint on the second-row outboard seat if necessary.*

1. Lower the head restraint all the way down.
   Refer to Head Restraints on page 2-16.
2. Raise the lever on the side of the second-row seat to fold down the seatback.



NOTE

To create a flat luggage compartment space from the rear of the vehicle to the back of the front seats, fold the second-row and third-row seats (page 2-15).



To return the seatback to its upright position:

WARNING

When returning a seatback to its upright position, make sure the 3-point seat belt is not caught in the seatback and the 3-point seat belt is not twisted:

If the seat belt is used while it is twisted and caught in the seatback, the seat belt cannot function at its full capacity, which could cause serious injury or death.

1. Make sure that the seat belt is not stuck in the second-row seat and it is not twisted, then raise the seatback while preventing the seat belt from being caught in the seatback.
2. Press the seatback rearward and lock it in place. After returning the seatback to its upright position, make sure it is securely locked.

Third-Row Seat

▼Split folding the Third-Row Seats

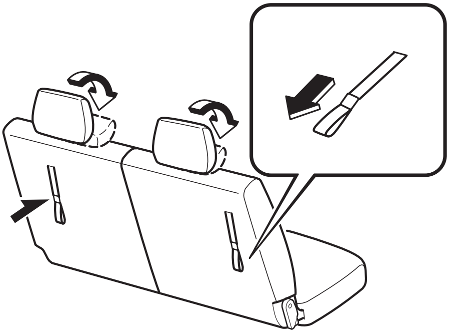
To create a flat luggage compartment space, fold the seatbacks forward.

NOTE

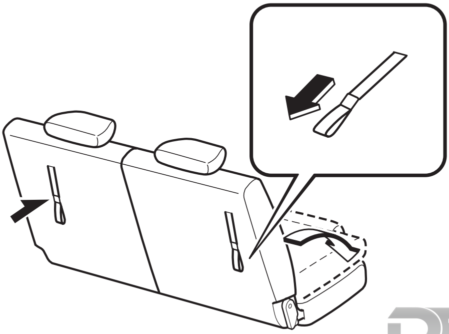
When folding the seatbacks forward, fold them in two steps.

Folding the seatbacks (With strap)

1. Slide the second-row seat all the way forward.
2. Pull the strap to fold down the head restraint.

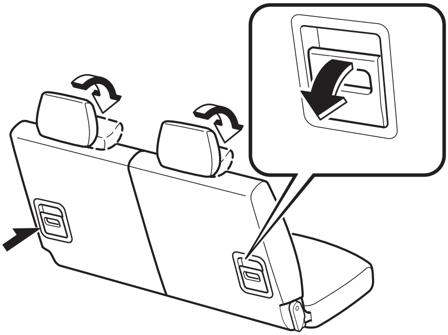


3. Pull the strap further to fold the third-row seat forward.

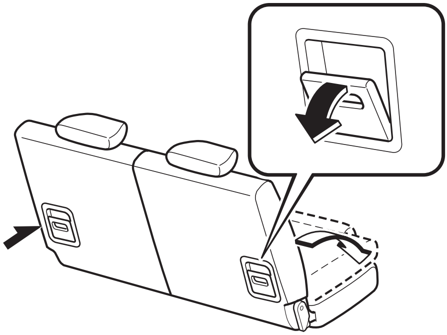


Folding the seatbacks (With lever)

1. Slide the second-row seat all the way forward.
2. Lower the lever to fold down the head restraint.



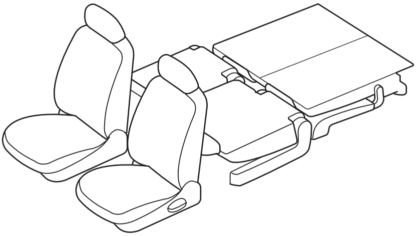
3. Lower the lever further to fold the third-row seat forward.



DEP DEALER ePROCESS

NOTE

To create a flat luggage compartment space from the rear of the vehicle to the back of the front seats, fold the second-row and third-row seats (page 2-13).



To return third-row seat to its original position

1. Return the seatback to its original position by pulling the strap/lever on the back of the seatback.
   Make sure the seatback is secured by attempting to lightly move it forward and back.
2. Lift the head restraint upward to its upright position.

Head Restraints

Your vehicle is equipped with head restraints on all outboard seats and the second-row center seat. The head restraints are intended to help protect you and the passengers from neck injury.

WARNING

Always drive with the head restraints installed when seats are being used and make sure they are properly adjusted. In addition, always raise the head restraints on all rear seat when they are being used:

> *Driving with the head restraints adjusted too low or removed is dangerous. With no support behind your head, your neck could be seriously injured in a collision.*

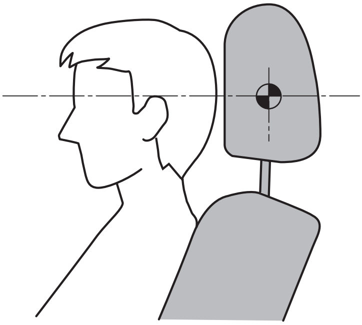
NOTE

(Third-row seat)

The head restraints are non-adjustable.

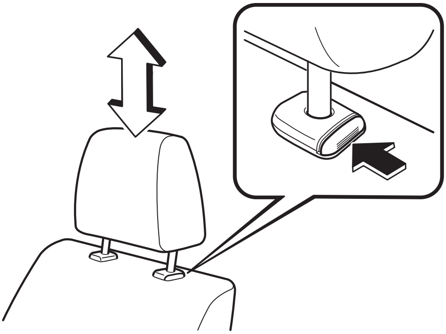
▼Height Adjustment

Adjust the head restraint so that the center is even with the top of the passenger's ears.

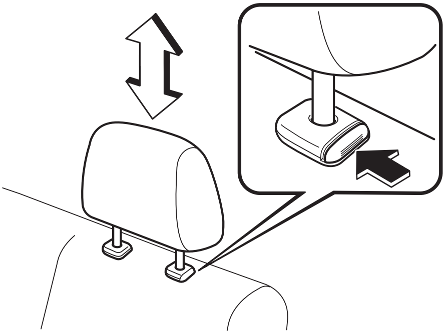


To raise a head restraint, pull it up to the desired position.
To lower the head restraint, press the stop-catch release, then push the head restraint down.

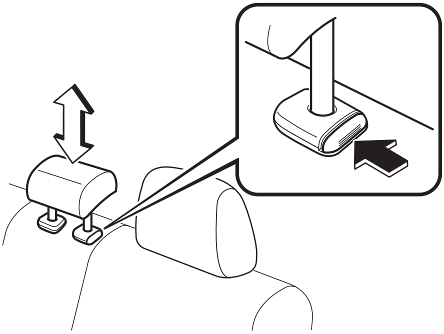
Front outboard seat



Second-row outboard seat



Second-row center seat



▼Removal/Installation

To remove the head restraint, pull it up while pressing the stop-catch.
To install the head restraint, insert the legs into the holes while pressing the stop-catch.

⚠ WARNING

Always drive with the head restraints installed when seats are being used and make sure they are properly installed:

Driving with the head restraints not installed is dangerous. With no support behind your head, your neck could be seriously injured in a collision.

After installing a head restraint, try lifting it to make sure that it does not pull out:

Driving with an unsecured head restraint is dangerous as the effectiveness of the head restraint will be compromised which could cause it to unexpectedly detach from the seat.

⚠ CAUTION

- *When installing a head restraint, make sure that it is installed correctly with the front of the head restraint facing forward. If the head restraint is installed incorrectly, it could detach from the seat during a collision and result in injury.*
- *The head restraints on each of the front and rear seats are specialized to each seat. Do not switch around the head restraint positions. If a head restraint is not installed to its correct seat position, the effectiveness of the head restraint during a collision will be compromised which could cause injury.*

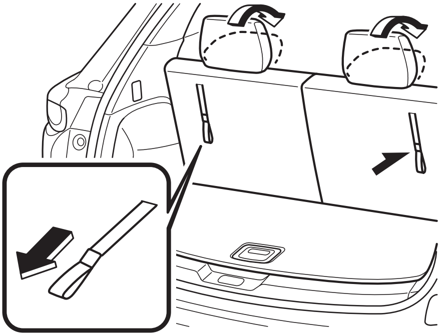
▼Foldable Head Restraints

The third-row seats are equipped with foldable head restraints.

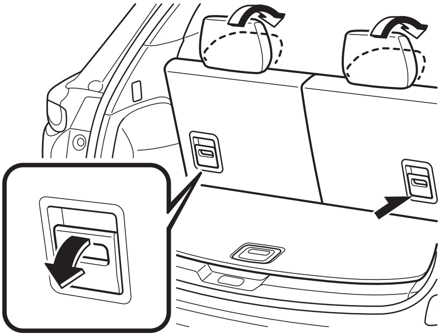
NOTE

The foldable head restraints cannot be adjusted or removed.

(With strap)
To fold the head restraint, pull the strap and fold the head restraint downward.



(With lever)
To fold the head restraint, lower the lever down.



To return the head restraint to its upright position, lift it upward.

DEP DEALER ePROCESS

WARNING

Always drive with the head restraints in their upright positions when the third-row seats are occupied, and make sure they are securely locked in place:

Driving with the head restraints folded down is dangerous. With no support behind your head, your neck could be seriously injured in a collision.

Seat Belt Precautions

Seat belts help to decrease the possibility of severe injury during accidents and sudden stops. Mazda recommends that the driver and all passengers always wear seat belts.

(Except Mexico)

All of the seat belt retractors are designed to keep the lap/shoulder belts out of the way when not in use.

The driver's seat belt has no provisions for child-restraint systems and has only an emergency locking mode. The driver may wear it comfortably, and it will lock during a collision.

However, the front passenger's seat and all rear lap/shoulder belt retractors operate in two modes: emergency locking mode, and for child-restraint systems, automatic locking mode. While we recommend you put all children in the rear seats, if you must use the front passenger seat for a child, slide the front passenger seat as far back as possible and make sure any child-restraint system is secured properly.

(Mexico)

All the seats have lap/shoulder belts. These belts have retractors with inertia locks that keep them out of the way when not in use. The locks allow the belts to remain comfortable on users, but they will lock in position during a collision.

⚠ WARNING

Always wear your seat belt and make sure all occupants are properly restrained:

Not wearing a seat belt is extremely dangerous. During a collision, occupants not wearing seat belts could hit someone or things inside the vehicle or even be thrown out of the vehicle. They could be seriously injured or even killed. In the same collision, occupants wearing seat belts would be much safer.

Do not wear twisted seat belts:

Twisted seat belts are dangerous. In a collision, the full width of the belt is not available to absorb the impact. This puts more force on the bones beneath the belt, which could cause serious injury or death. So, if your seat belt is twisted, you must straighten the seat belt to remove any twists and to allow the full width of the belt to be used.

Never use one seat belt on more than one person at a time:

Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way cannot spread the impact forces properly and the two passengers could be crushed together and seriously injured or even killed. Never use one belt for more than one person at a time and always operate the vehicle with each occupant properly restrained.

Do not operate a vehicle with a damaged seat belt:

Using a damaged seat belt is dangerous. An accident could damage the belt webbing of the seat belt in use. A damaged seat belt cannot provide adequate protection in a collision. Have an Authorized Mazda Dealer inspect all seat belt systems in use during an accident before they are used again.

Have your seat belts changed immediately if the pretensioner or load limiter has been expended:

Always have an Authorized Mazda Dealer immediately inspect the seat belt pretensioners and air bags after any collision. Like the air bags, the seat belt pretensioners and load limiters will only function once and must be replaced after any collision that caused them to deploy. A seat belt with an expended pretensioner or load limiter is still better than wearing no seat belt at all; however, if the seat belt pretensioners and load limiters are not replaced, the risk of injury in a collision will increase.

Positioning the Shoulder Portion of the Seat Belt:

Improper positioning of the shoulder portion of the seat belt is dangerous. Always make sure the shoulder portion of the seat belt is positioned across your shoulder and near your neck, but never under your arm, on your neck, or on your upper arm.

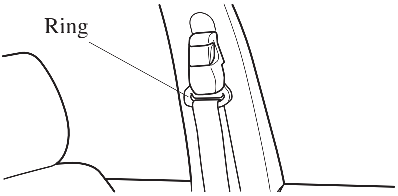
Positioning the Lap Portion of the Seat Belt:

The lap portion of the seat belt worn too high is dangerous. In a collision, this would concentrate the impact force directly on the abdominal area, causing serious injury. Wear the lap portion of the belt snugly and as low as possible.

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

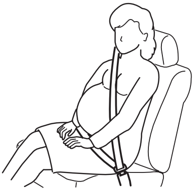
⚠ CAUTION

Belt retraction may become difficult if the belts and rings are soiled, so try to keep them clean. For more details about cleaning the seat belts, refer to "Seat Belt Maintenance" (page 6-69).



▼Pregnant Women and Persons with Serious Medical Conditions

Pregnant women should always wear seat belts. Ask your doctor for specific recommendations.
The lap belt should be worn SNUGLY AND AS LOW AS POSSIBLE OVER THE HIPS.
The shoulder belt should be worn across your shoulder properly, but never across the stomach area.
Persons with serious medical conditions also should wear seat belts. Check with your doctor for any special instructions regarding specific medical conditions.



▼Emergency Locking Mode

When the seat belt is fastened, it will always be in the emergency locking mode.
In the emergency locking mode, the belt remains comfortable on the occupant and the retractor will lock in position during a collision.
If the belt is locked and cannot be pulled out, retract the belt once, and then try pulling it out slowly. If this fails, pull the belt strongly one time and loosen, then pull it out again slowly.

(Seat Belt with Automatic Locking Mode)

When the seat belt is fastened, it will always be in the emergency locking mode until it is switched to automatic locking mode by pulling it all the way out to its full length. If the belt feels tight and hinders comfortable movement while the vehicle is stopped or in motion, it may be in the automatic locking mode because the belt has been pulled too far out. To return the belt to the more comfortable emergency locking mode, wait until the vehicle has stopped in a safe, level area, retract the belt fully to convert it back to emergency locking mode and then extend it around you again.

▼Automatic Locking Mode*

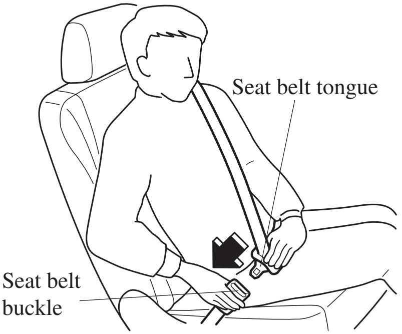
Always use the automatic locking mode to keep the child-restraint system from shifting to an unsafe position in the event of an accident. To enable seat belt automatic locking mode, pull it all the way out and connect it as instructed on the child-restraint system. It will retract down to the child-restraint system and stay locked on it. See the section on child restraint (page 2-29).

DEP DEALER ePROCESS

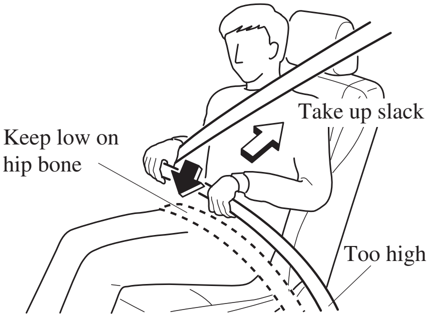
*Some models.

Seat Belt

▼Fastening the Seat Belt

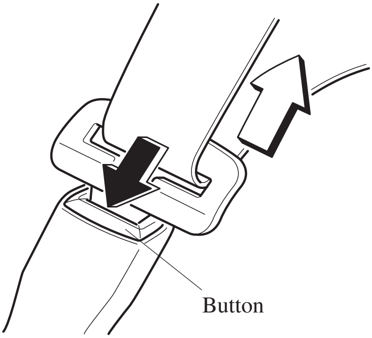

Seat belt tongue
Seat belt buckle

Position the lap belt as low as possible, not on the abdominal area, then adjust the shoulder belt so that it fits snugly against your body.


Take up slack
Keep low on hip bone
Too high

▼Unfastening the Seat Belt

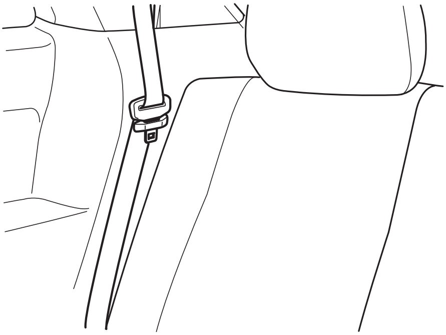
Depress the button on the seat belt buckle. If the belt does not fully retract, pull it out and check for kinks or twists. Then make sure it remains untwisted as it retracts.



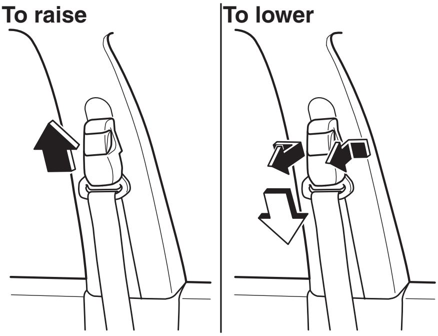
NOTE

If a belt does not fully retract, inspect it for kinks and twists. If it is still not retracting properly, have it inspected at an Authorized Mazda Dealer.

To secure the outboard-third row seat belts when not in use, insert the belts into their seat belt retainers.



▼Front Shoulder Belt Adjuster



Make sure the adjuster is locked.

Seat Belt Warning Systems

If it detects that the occupant seat belt is unfastened, the warning light or beep alerts the occupant.
Refer to Warning/Indicator Lights on page 4-31.
Refer to Seat Belt Warning Beep on page 7-46.

Front Seat Belt Pretensioner and Load Limiting Systems

For optimum protection, the driver and front passenger seat belts are equipped with pretensioner and load limiting systems. For both these systems to work properly you must wear the seat belt properly.

Pretensioners:
When a collision is detected, the pretensioners deploy simultaneously with the air bags.
For vehicles with the front passenger occupant classification system, the pretensioners deploy simultaneously with the air bags when a roll-over is also detected.
For deployment details, refer to the SRS Air Bag Deployment Criteria (page 2-62).
The front seat belt retractors remove slack quickly as the air bags are expanding.
Any time the air bags and seat belt pretensioners have fired they must be replaced.
A system malfunction or operation conditions are indicated by a warning.
Refer to Warning/Indicator Lights on page 4-31.
Refer to Air Bag/Front Seat Belt Pretensioner System Warning Beep on page 7-45.

(With Front Passenger Occupant Classification System)
In addition, the pretensioner system for the front passenger, like the front and side passenger air bag, is designed to only deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat.
For details, refer to the front passenger occupant classification sensor (page 2-65).

Load limiter:
The load limiting system releases belt webbing in a controlled manner to reduce belt force on the occupant's chest. While the most severe load on a seat belt occurs in frontal collisions, the load limiter has an automatic mechanical function and can activate in any accident mode with sufficient occupant movement.
Even if the pretensioners have not fired, the load limiting function must be checked by an Authorized Mazda Dealer.

⚠ WARNING

Wear seat belts only as recommended in this owner's manual:

Incorrect positioning of the driver and front passenger seat belts is dangerous. Without proper positioning, the pretensioner and load limiting systems cannot provide adequate protection in an accident and this could result in serious injury. For more details about wearing seat belts, refer to "Fastening the seat belts" (page 2-23).

Have your seat belts changed immediately if the pretensioner or load limiter has been expended:

Always have an Authorized Mazda Dealer immediately inspect the seat belt pretensioners and air bags after any collision. Like the air bags, the seat belt pretensioners and load limiters will only function once and must be replaced after any collision that caused them to deploy. A seat belt with an expended pretensioner or load limiter is still better than wearing no seat belt at all; however, if the seat belt pretensioners and load limiters are not replaced, the risk of injury in a collision will increase.

Do not modify the components or wiring, or use electronic testing devices on the pretensioner system:

Modifying the components or wiring of the pretensioner system, including the use of electronic testing devices is dangerous. You could accidentally activate it or make it inoperable which would prevent it from activating in an accident. The occupants or repairers could be seriously injured.

Properly dispose of the pretensioner system:

Improper disposal of the pretensioner system or a vehicle with non-deactivated pretensioners is dangerous. Unless all safety procedures are followed, injury could result. Have an Authorized Mazda Dealer safely dispose of the pretensioner system or scrap a pretensioner system equipped vehicle.

NOTE

- *The pretensioner system may not operate depending on the type of the collision. For details, refer to the SRS Air Bag Deployment Criteria (page 2-62).*
- *Some smoke (non-toxic gas) will be released when the air bags and pretensioners deploy. This does not indicate a fire. This gas normally has no effect on occupants, however, those with sensitive skin may experience light skin irritation. If residue from the deployment of the air bags or the front pretensioner system gets on the skin or in the eyes, wash it off as soon as possible.*

Seat Belt Extender

If your seat belt is not long enough, even when fully extended, a seat belt extender may be available to you at no charge from your Authorized Mazda Dealer.
This extender will be only for you and for the particular vehicle and seat. Even if it plugs into other seat belts, it may not hold in the critical moment of a crash.
When ordering an extender, only order one that provides the necessary additional length to fasten the seat belt properly.
Please contact your Authorized Mazda Dealer for more information.

⚠ WARNING

Do not use a seat belt extender unless it is necessary:

Using a seat belt extender when not necessary is dangerous. The seat belt will be too long and not fit properly. In an accident, the seat belt will not provide adequate protection and you could be seriously injured. Only use the extender when it is required to fasten the seat belt properly.

Do not use an improper extender:

Using a seat belt extender that is for another person or a different vehicle or seat is dangerous. The seat belt will not provide adequate protection and the user could be seriously injured in an accident. Only use the extender provided for you and for the particular vehicle and seat. NEVER use the extender in a different vehicle or seat. If you sell your Mazda, do not leave your seat belt extender in the vehicle. It could be used accidentally by the new owner of the vehicle. After removing the seat belt extender, discard it. Never use the seat belt extender in any other vehicle you may own in the future.

Do not use an extender that is too long:

Using an extender that is too long is dangerous. The seat belt will not fit properly. In an accident, the seat belt will not provide adequate protection and you could be seriously injured. Do not use the extender or choose one shorter in length if the distance between the extender's buckle and the center of the user's body is less than 15 cm (6 in).

Do not leave a seat belt extender connected to the buckle:

Leaving a seat belt extender connected to the buckle without using the seat belt is dangerous. When the seat belt extender is connected to the driver's seat belt buckle (or front passenger's seat belt buckle), the SRS driver's (or front passenger's) air bag system will determine that the driver (or front passenger) is wearing the seat belt even if the driver (or front passenger) is not wearing it. This condition could cause the driver's (or front passenger's) air bag to not activate correctly and result in death or serious injury in the event of collision. Always wear the seat belt with the seat belt extender.

Do not use the seat belt extender when installing a child-restraint system on the front or rear passenger seat:

Using a seat belt extender to fasten a child-restraint system on any seat is dangerous. Always follow the child-restraint system manufacturer's installation instructions and never use a seat belt extender.

NOTE

When not in use, remove the seat belt extender and store it in the vehicle. If the seat belt extender is left connected, the seat belt extender might get damaged as it will not retract with the rest of the seat belt and can easily fall out of the door when not in use and be damaged. In addition, the seat belt warning light will not illuminate and function properly.

Child-Restraint Precautions

Mazda strongly urges the use of child-restraint systems for children small enough to use them.

You are required by law to use a child-restraint system for children in the U.S. and Canada. Check your local and state or provincial laws for specific requirements regarding the safety of children riding in your vehicle.

Whatever child-restraint system you consider, please pick the appropriate one for the age and size of the child, obey the law and follow the instructions that come with the individual child-restraint system.

A child who has outgrown child-restraint systems should sit in the rear and use seat belts, both lap and shoulder. If the shoulder belt crosses the neck or face, move the child closer to the center of the vehicle in the outboard seats, and towards the buckle on the right if the child is seated on the center seat.

Statistics confirm that the rear seat is the best place for all children up to 12 years of age, and more so with a supplemental restraint system (air bags).

A rear-facing child-restraint system should **NEVER** be used on the front seat with the air bag system activated. The front passenger's seat is also the least preferred seat for other child-restraint systems.

(With Front Passenger Occupant Classification System)
To reduce the chance of injuries caused by deployment of the front passenger air bag, the front passenger occupant classification sensor works as a part of the supplemental restraint system. This system deactivates the front passenger front and side air bags and also the front passenger seat belt pretensioner system when the front passenger air bag deactivation indicator light illuminates.

When an infant or small child sits on the front passenger seat, the system shuts off the front passenger front and side air bags and seat belt pretensioner system, so make sure the front passenger air bag deactivation indicator light illuminates.

Even if the front passenger air bag is shut off, Mazda strongly recommends that children be properly restrained and child-restraint systems of all kinds are properly secured on the rear seats which are the best place for children.

For more details, refer to "Front passenger occupant classification sensor" (page 2-65).

Child Restraint

⚠ WARNING

Use the correct size child-restraint system:

For effective protection in vehicle accidents and sudden stops, a child must be properly restrained using a seat belt or child-restraint system depending on age and size. If not, the child could be seriously injured or even killed in an accident.

Follow the manufacturer's instructions and always keep the child-restraint system buckled down:

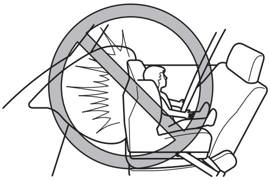
An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Make sure any child-restraint system is properly secured in place according to the child-restraint system manufacturer's instructions. When not in use, remove it from the vehicle or fasten it with a seat belt, or latch it down to BOTH LATCH lower anchors for LATCH child-restraint systems and the corresponding tether anchor.

Always secure a child in a proper child-restraint system:

Holding a child in your arms while the vehicle is moving is extremely dangerous. No matter how strong the person may be, he or she cannot hold onto a child in a sudden stop or collision and it could result in serious injury or death to the child or other occupants. Even in a moderate accident, the child may be exposed to air bag forces that could result in serious injury or death to the child, or the child may be slammed into an adult, causing injury to both child and adult.

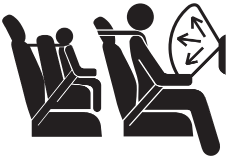
Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:

Rear-facing child-restraint systems on the front seat are particularly dangerous even though you may feel assured that a front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates. The child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child.



(Except Mexico)

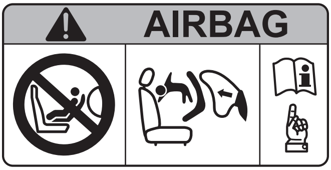
Vehicles with a front passenger air bag have the following warning label. The warning label reminds you not to put a rear-facing child-restraint system on the front passenger seat at any time.



(Mexico)

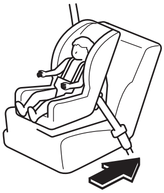
NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur.

Vehicles with a front passenger air bag have the following warning label. The warning label reminds you not to put a rear-facing child-restraint system on the front passenger seat at any time.



Do not install a front-facing child-restraint system on the front passenger seat unless it is unavoidable:

In a collision, the force of a deploying air bag could cause serious injury or death to the child. If installing a front-facing child-restraint system on the front passenger seat is unavoidable, move the front passenger seat as far back as possible.



Seating a child in a child-restraint system on the front passenger seat is dangerous under certain conditions* (With Front Passenger Occupant Classification System)*:

Your vehicle is equipped with front passenger occupant classification sensor. Even with the front passenger occupant classification sensor, if you must use the front passenger seat to seat a child, using a child-restraint system on the front passenger seat under the following conditions increases the danger of the front passenger air bag deploying and could result in serious injury or death to the child.

- *The front passenger air bag deactivation indicator light does not illuminate when seating a child in the child-restraint system.*
- *Luggage or other items are placed on the seat with the child in the child-restraint system.*
- *A rear passenger or luggage pushing or pulling down on the front passenger seatback.*
- *Luggage or other items are placed on the seatback or hung on the head restraint.*
- *The seat is washed.*
- *Liquids are spilled on the seat.*
- *The front passenger seat is moved backward, pushing into luggage or other items placed behind it.*
- *The front passenger seatback contacts the rear seat.*
- *Luggage or other items are placed between the front passenger seat and driver seat.*
- *An electric device is put on the front passenger's seat.*
- *An additional electrical device, such as a seat warmer is installed to the surface of the front passenger seat.*

The designated positions with seat belts on the rear seats are the safest places for children. Always use seat belts and child restraints.

Do not allow a child or anyone to lean over or against the side window of a vehicle with side and curtain air bags:

It is dangerous to allow anyone to lean over or against the side window, the area of the front passenger seat, the front and rear window pillars and the roof edge along both sides from which the side and curtain air bags deploy, even if a child-restraint system is used. The impact of inflation from a side or curtain air bag could cause serious injury or death to an out of position child. Furthermore, leaning over or against the front door could block the side and curtain air bags and eliminate the advantages of supplemental protection. With the front air bag and the additional side air bag that comes out of the front seat, the rear seat is always a better location for children. Take special care not to allow a child to lean over or against the side window, even if the child is seated in a child-restraint system.

Never use one seat belt on more than one person at a time:

Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way cannot spread the impact forces properly and the two passengers could be crushed together and seriously injured or even killed. Never use one belt for more than one person at a time and always operate the vehicle with each occupant properly restrained.

⚠ CAUTION

A seat belt or child-restraint system can become very hot in a closed vehicle during warm weather. To avoid burning yourself or a child, check them before you or your child touches them.

NOTE

Your Mazda is equipped with LATCH lower anchors for attachment of specially designed LATCH child-restraint systems in the rear seats. When using these anchors to secure a child-restraint system, refer to "Using LATCH Lower Anchor" (page 2-44).

Child-Restraint System Installation

▼Child-Restraint System Types

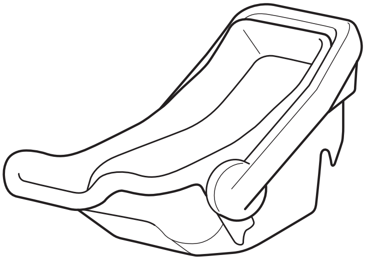
In this owner's manual, explanation of child-restraint systems is provided for the following three types of popular child-restraint systems: infant seat, child seat, booster seat.

NOTE

- *Installation position is determined by the type of child-restraint system. Always read the manufacturer's instructions and this owner's manual carefully.*
- *Due to variations in the design of child-restraint systems, vehicle seats and seat belts, all child-restraint systems may not fit all seating positions. Before purchasing a child-restraint system, it should be tested in the specific vehicle seating position (or positions) where it is intended to be used. If a previously purchased child-restraint system does not fit, you may need to purchase a different one that will.*

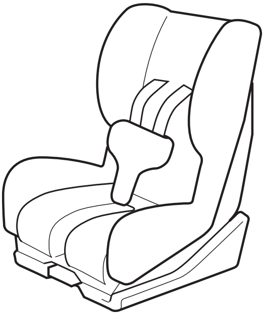
Infant seat

An infant seat provides restraint by bracing the infant's head, neck and back against the seating surface.



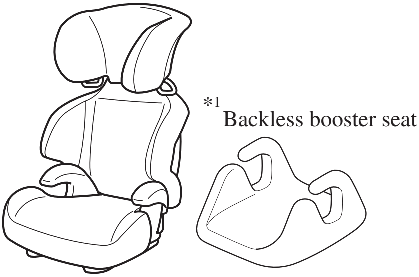
Child seat

A child seat restrains a child's body using the harness.



Booster seat

A booster seat is a child restraint accessory designed to improve the fit of the seat belt system around the child's body.



*1 When using a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.

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Installing Child-Restraint Systems

Accident statistics reveal that a child is safer in the rear seat. The front passenger's seat is clearly the worst choice for any child under 12, and with rear-facing child-restraint systems it is clearly unsafe due to air bags.

NOTE

Even if your vehicle is equipped with front passenger occupant classification sensor (page 2-65), which automatically deactivates the front passenger air bag, a rear seat is the safest place for a child of any age or size.

Some child-restraint systems now come with tethers and therefore must be installed on the seats that take tethers to be effective. In your Mazda, tethered child-restraint systems can only be accommodated in the four positions on the rear seat.

Some child-restraint systems also employ specially designed LATCH attachments; refer to "Using LATCH Lower Anchor" (page 2-44).

⚠ WARNING

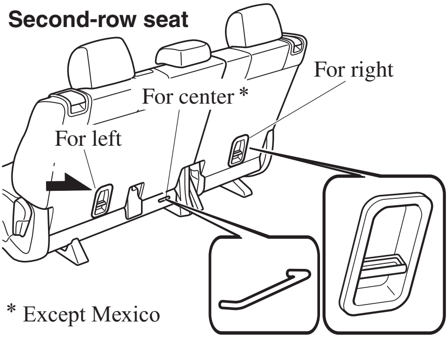
Tethered Child-Restraint Systems Work Only on Tether-Equipped Rear Seats:

Installation of a tether equipped child-restraint system in the front passenger's seat defeats the safety design of the system and will result in an increased chance of serious injury if the child-restraint system goes forward without benefit of being tethered. Place tether equipped child-restraint systems where there are tether anchors.

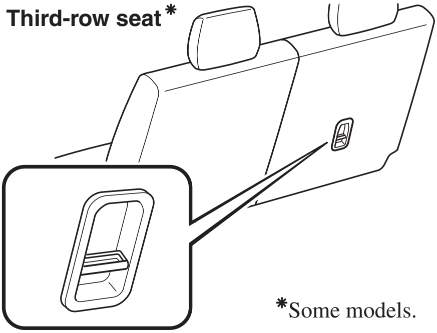
▼Anchor Bracket

Anchor brackets for securing child-restraint systems are equipped in the vehicle. Locate each anchor position using the illustration.
To install a child-restraint system, remove the head restraint (except third-row seat).
Always follow the instruction manual accompanying the child-restraint system.

Anchor bracket location
Use the indicated anchor bracket locations when installing a child-restraint system equipped with a tether.


Second-row seat
For right
For center *
For left

* Except Mexico


Third-row seat*

*Some models.

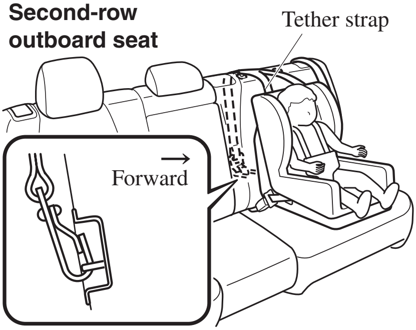
⚠ WARNING

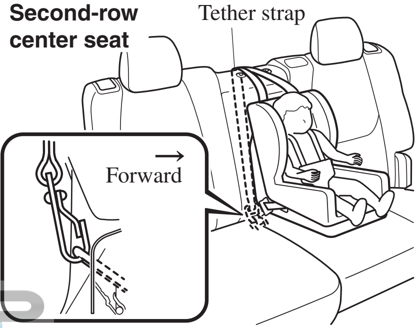
Always attach the tether strap to the correct tether anchor position:

Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

Always remove the head restraint and install child-restraint system (Second-row seat):

Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.


Second-row outboard seat
Tether strap
Forward

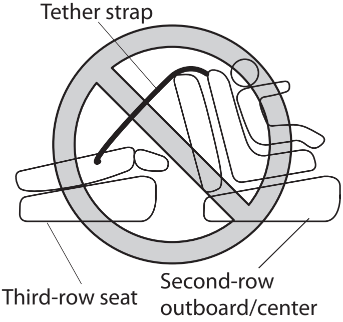

Second-row center seat
Tether strap
Forward

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system (Second-row seat):

Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death. Refer to Head Restraints on page 2-16.

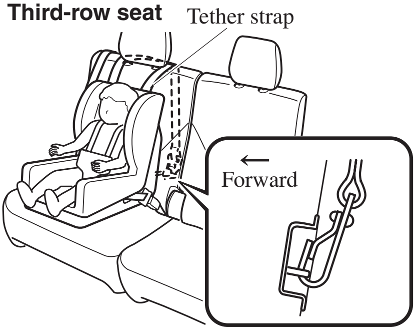
Only use a tether anchor designed for the second-row seats:

Using a third-row seat tether anchor on the second-row seat is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.



Always route the tether straps to the sides of the head restraint (Third-row seat):

Routing the tether straps on top of the head restraint is dangerous. In a collision the tether straps could slide off the head restraint and loosen the child-restraint system. The child-restraint system could move which may result in death or injury to the child.



▼Using Automatic Locking Mode*

Follow these instructions when using a child-restraint system, unless you are attaching a LATCH-equipped child-restraint system to the rear LATCH lower anchors. Refer to “Using LATCH Lower Anchor” (page 2-44).

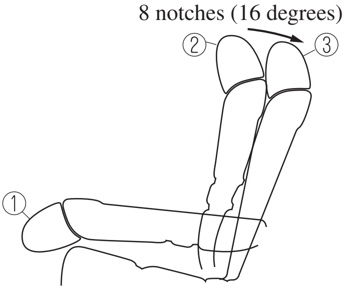
NOTE

Follow the child-restraint system manufacturer's instructions carefully. If you are not sure whether you have a LATCH system or tether, check in the child-restraint system manufacturer's instructions and follow them accordingly. Depending on the type of child-restraint system, it may use LATCH system instead of seat belts or if the belt goes across the child's chest, may recommend against using automatic locking mode.

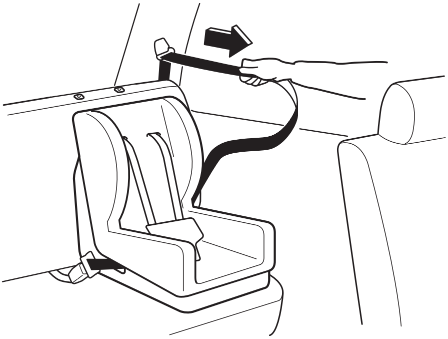
*Some models.

Child Restraint

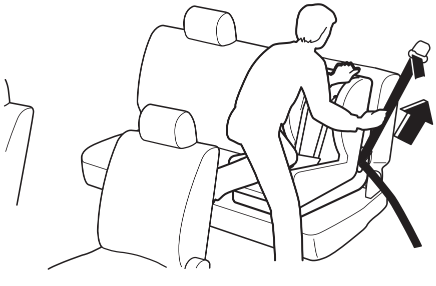
1. **(Second-row seat)**
   Adjust the second-row seat position using the following procedure.
   ① Fold the second-row seatback forward.
   ② Raise the second-row seatback until a click sound is heard and it is locked in place.
   ③ Fold the second-row seatback backward 8 notches (16 degrees).



2. Make sure the seatback is securely latched by pushing it back until it is fully locked.
3. **(Second-row seat)**
   Remove the head restraint. However, when installing a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.
   Refer to Head Restraints on page 2-16.
4. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the manufacturer's instructions on the child-restraint system for belt routing instructions.
5. To get the retractor into the automatic locking mode, pull the shoulder belt portion of the seat belt until the entire length of the belt is out of the retractor.



6. Push the child-restraint system firmly into the vehicle seat. Be sure the belt retracts as snugly as possible. A clicking noise from the retractor will be heard during retraction if the system is in the automatic locking mode. If the belt does not lock the seat down tight, repeat this step.



NOTE

Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency locking mode before occupants use the seat belts.

7. If your child-restraint system requires the use of a tether strap, refer to the manufacturer's instructions to hook and tighten the tether strap.

⚠ WARNING

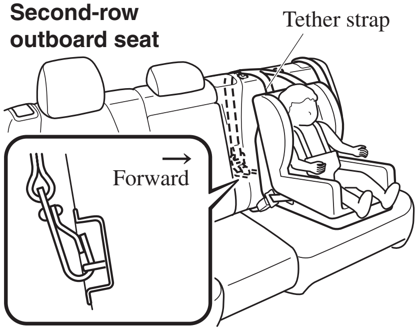
Use the tether and tether anchor only for a child-restraint system:

Using the tether or tether anchor to secure anything but a child-restraint system is dangerous. This could weaken or damage the tether or tether anchor and result in injury.

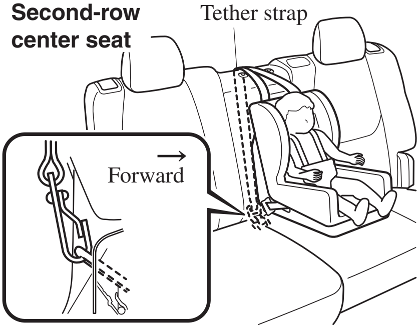
Always remove the head restraint and install child-restraint system (except when installing a backless booster seat) (Second-row seat):

Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.

Second-row outboard seat



Second-row center seat



Always attach the tether strap to the correct tether anchor position:

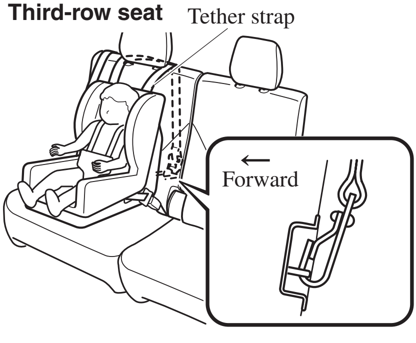
Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system (Second-row seat):

Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-16.

Always route the tether straps to the sides of the head restraint (Third-row seat):

Routing the tether straps on top of the head restraint is dangerous. In a collision the tether straps could slide off the head restraint and loosen the child-restraint system. The child-restraint system could move which may result in death or injury to the child.



▼If You Must Use the Front Seat for Children

If you cannot put all children in the rear seat, at least put the smallest children in the rear and be sure the largest child up front uses the shoulder belt over the shoulder.
NEVER put a rear-facing child-restraint system on the front passenger seat whether your vehicle is equipped with a occupant classification sensor or not.
This seat is also not set up for tethered child-restraint systems, put them in one of the rear seat positions set up with tether anchors.
Likewise the LATCH child-restraint system cannot be secured in the front passenger's seat and should be used in the second-row seat.
Do not allow anyone to sleep against the side window since your vehicle has side and curtain air bags, it could cause serious injuries to an out of position occupant.
As children more often sleep in cars, it is better to put them in the rear seat.
If installing the child-restraint system on the front seat is unavoidable, follow these instructions when using a front-facing child-restraint system in the front passenger's seat.

NOTE

- *To check if your front seats have side air bags:*
  Mazda vehicles equipped with side air bag will have a "SRS AIRBAG" tag on the outboard shoulder of the front seats.
- *To check if your vehicle has curtain air bags:*
  Mazda vehicles equipped with curtain air bag will have an "SRS AIRBAG" marking on the window pillars along the roof edge.

⚠ WARNING

Always move the front passenger seat as far back as possible if installing a front-facing child-restraint system on it is unavoidable:

As your vehicle has front air bags and doubly so because your vehicle has side air bags, a front-facing child-restraint system should be put on the front passenger seat only when it is unavoidable.
Even if the front passenger air bag deactivation indicator light illuminates, always move the seat as far back as possible, because the force of a deploying air bag could cause serious injury or death to the child.

Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:

Rear-facing child-restraint systems on the front seat are particularly dangerous.
Even in a moderate collision, the child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child.
Even though you may feel assured that the front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates, you should not use a rear-facing child-restraint system in the front seat.

Do not allow a child or anyone to lean over or against the side window of a vehicle with side and curtain air bags:

It is dangerous to allow anyone to lean over or against the side window, the area of the front passenger seat, the front and rear window pillars and the roof edge along both sides from which the side and curtain air bags deploy, even if a child-restraint system is used. The impact of inflation from a side or curtain air bag could cause serious injury or death to an out of position child. Furthermore, leaning over or against the front door could block the side and curtain air bags and eliminate the advantages of supplemental protection. With the front air bag and the additional side air bag that comes out of the front seat, the rear seat is always a better location for children.
Take special care not to allow a child to lean over or against the side window, even if the child is seated in a child-restraint system.

Always remove the head restraint and install child-restraint system (except when installing a backless booster seat):

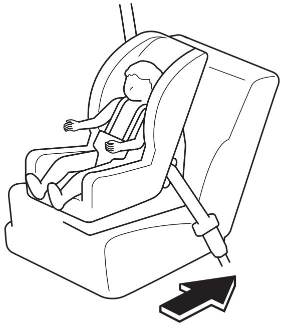
Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:

> *Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.*
>
> *Refer to Head Restraints on page 2-16.*

Front Passenger's Seat Child-Restraint System Installation (With Front Passenger Occupant Classification System)

1. Make sure the ignition is switched off.
2. Slide the seat as far back as possible.



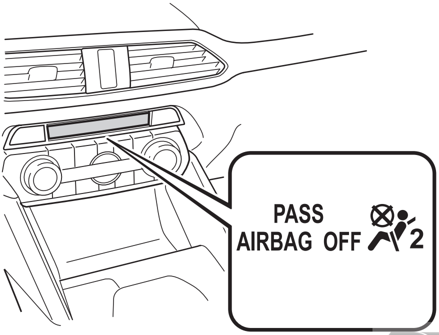
3. Remove the head restraint. However, when installing a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.
4. Place the child-restraint system on the seat without putting your weight on the seat and fasten the seat belt. See the manufacturer's instructions on the child-restraint system for belt routing instructions.
5. To get the retractor into the automatic locking mode, pull the shoulder belt portion of the seat belt until the entire length of the belt is out of the retractor.
6. Push the child-restraint system firmly into the vehicle seat. Be sure the belt retracts as snugly as possible. A clicking noise from the retractor will be heard during retraction if the system is in automatic locking mode. If the belt does not lock the seat down tight, repeat the previous step and also this one.

DEP DEALER ePROCESS

NOTE

- *Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency locking mode before occupants use the seat belts.*
- *Follow the child-restraint system manufacturer's instructions carefully. Depending on the type of child-restraint system, it may not employ seat belts which are in automatic locking mode.*

7. Seat your child safely in the child-restraint system and secure the child according to the instructions from the child-restraint system manufacturer.
8. Switch the ignition ON and make sure the front passenger air bag deactivation indicator light illuminates after installing a child-restraint system on the front passenger seat.
   If the front passenger air bag deactivation indicator light does not illuminate, remove the child-restraint system, switch the ignition to OFF, and then re-install the child-restraint system (page 2-65).



⚠ WARNING

Do not seat a child in a child-restraint system on the front passenger seat if the front passenger air bag deactivation indicator light does not illuminate:

*While it is always better to install any child-restraint system on the rear seat, it is imperative that a child-restraint system **ONLY** be used on the front passenger seat if the deactivation indicator light illuminates when the child is seated in the child-restraint system (page 2-65). Seating a child in a child-restraint system installed on the front passenger seat with the front passenger air bag deactivation indicator light not illuminated is dangerous. If this indicator light does not illuminate, this means that the front passenger front and side air bags, and seat belt pretensioner are ready for deployment. If an accident were to deploy an air bag, a child in a child-restraint system sitting in the front passenger seat could be seriously injured or killed. If the indicator light does not illuminate after seating a child in a child-restraint system on the front passenger seat, seat a child in a child-restraint system on the rear seat and consult an Authorized Mazda Dealer as soon as possible.*

▼Using LATCH Lower Anchor (Second-Row Seats)

Your Mazda is equipped with LATCH lower anchors for attachment of specially designed LATCH child-restraint systems in the second-row seats. Both anchors must be used, otherwise the seat will bounce around and put the child in danger. Most LATCH child-restraint systems must also be used in conjunction with a tether to be effective. If they have a tether you must use it to better assure your child's safety.

⚠ WARNING

Follow the manufacturer's instructions for the use of the child-restraint system:

An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Make sure the child-restraint system is properly secured in place according to the child-restraint system manufacturer's instructions.

Never attach two child-restraint systems to the same LATCH lower anchor:

Attaching two child-restraint systems to the same LATCH lower anchor is dangerous. In a collision, one anchor may not be strong enough to hold two child-restraint system attachments, and it may break, causing serious injury or death. If you use the seat position for another child-restraint system when an outboard LATCH position is occupied, use the center seat belts instead, and the tether if tether-equipped.

Make sure the child-restraint system is properly secured:

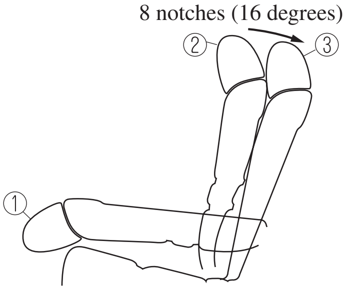
An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Follow the child-restraint system manufacturer's instructions on belt routing to secure the seat just as you would with a child in it so that nobody is tempted to put a child in an improperly secured seat later on. When not in use, remove it from the vehicle or fasten it with a seat belt, or latch it down to BOTH LATCH lower anchors for LATCH child-restraint systems.

Make sure there are no seat belts or foreign objects near or around the LATCH child-restraint system:

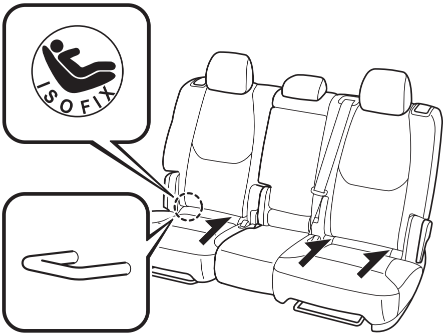
Not following the child-restraint system manufacturer's instructions when installing the child-restraint system is dangerous. If seat belts or a foreign object prevent the child-restraint system from being securely attached to the LATCH lower anchors and the child-restraint system is installed improperly, the child-restraint system could move in a sudden stop or collision causing serious injury or death to the child or other occupants. When installing the child-restraint system, make sure there are no seat belts or foreign objects near or around the LATCH lower anchors. Always follow the child-restraint system manufacturer's instructions.

Installation on second-row outboard seats

1. First, adjust the front seat to allow clearance between the child-restraint system and the front seat (page 2-5).
2. Adjust the second-row seat position using the following procedure.
   ① Fold the second-row seatback forward.
   ② Raise the second-row seatback until a click sound is heard and it is locked in place.
   ③ Fold the second-row seatback backward 8 notches (16 degrees).



3. Make sure the seatback is securely latched by pushing it back until it is fully locked.
4. Expand the area between the seat bottom and the seatback slightly to verify the locations of the LATCH lower anchors.



NOTE

The markings above the LATCH lower anchors indicate the locations of the LATCH lower anchors for the attachment of a child-restraint system.

5. Remove the head restraint.
   Refer to Head Restraints on page 2-16.
6. Secure the child-restraint system using BOTH LATCH lower anchors, following the child-restraint system manufacturer's instruction. Pull on the child-restraint to be sure both anchors are engaged.
7. If your child-restraint system came equipped with a tether, that means it is very important to properly secure the tether for child safety. Please carefully follow the child-restraint system manufacturer's instructions when installing tethers.

DEP DEALER ePROCESS

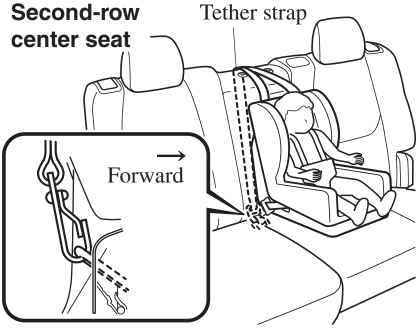
WARNING

Use the tether and tether anchor only for a child-restraint system:

Using the tether or tether anchor to secure anything but a child-restraint system is dangerous. This could weaken or damage the tether or tether anchor and result in injury.

Always remove the head restraint and install child-restraint system:

Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.



Always attach the tether strap to the correct tether anchor position:

Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:

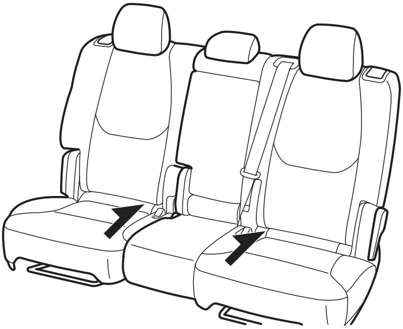
Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-16.

Installation on second-row center seat

The LATCH lower anchors at the center of the second-row seat are much further apart than the sets of LATCH lower anchors for child-restraint system installation at other seating positions. Child-restraint systems with rigid LATCH attachments cannot be installed on the center seating position. Some LATCH equipped child-restraint systems can be placed in the center position and will reach the nearest LATCH lower anchors which are 500 mm (19.7 in) apart. LATCH compatible child-restraint systems (with attachments on belt webbing) can be used at this seating position only if the child-restraint system manufacturer's instructions state that the child-restraint system can be installed to LATCH lower anchors that are 500 mm (19.7 in) apart. Do not attach two child-restraint systems to the same LATCH lower anchor. If your child-restraint system has a tether, it must also be used for your child's optimum safety.

The procedure for installation on the rear outboard seats is the same.

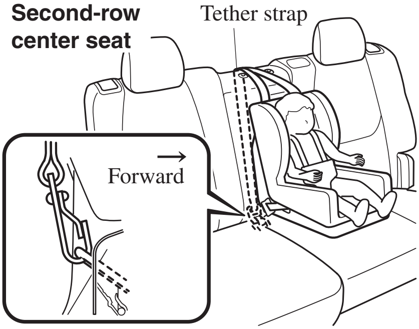
LATCH lower anchor location



⚠ WARNING

Always remove the head restraint and install child-restraint system:

Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.



Always attach the tether strap to the correct tether anchor position:

Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:

Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-16.

Supplemental Restraint System (SRS) Precautions

The front and side supplemental restraint systems (SRS) include different types of air bags. **Please verify the different types of air bags which are equipped on your vehicle by locating the “SRS AIRBAG” location indicators.** These indicators are visible in the area where the air bags are installed.
The air bags are installed in the following locations:

- The steering wheel hub (driver air bag)
- The front passenger dashboard (front passenger air bag)
- The outboard sides of the front seatbacks (side air bags)
- The front and rear window pillars, and the roof edge along both sides (curtain air bags)

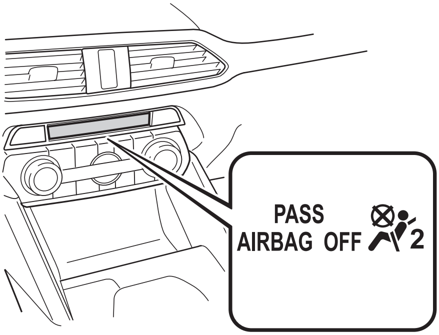
Vehicles with the Front Passenger Occupant Classification System have a sensor which detects an impending roll-over accident.

The air bag supplemental restraint systems are designed to provide supplemental protection in certain situations so seat belts are always important in the following ways:

Without seat belt usage, the air bags cannot provide adequate protection during an accident. Seat belt usage is necessary to:

- Keep the occupant from being thrown into an inflating air bag.
- Reduce the possibility of injuries during an accident that is not designed for air bag inflation, such as rear impact.
- Reduce the possibility of injuries in frontal, near frontal or side collisions or roll-over accidents that are not severe enough to activate the air bags.
- Reduce the possibility of being thrown from your vehicle.
- Reduce the possibility of injuries to lower body and legs during an accident because the air bags provide no protection to these parts of the body.
- Hold the driver in a position which allows better control of the vehicle.

If your vehicle is also equipped with a front passenger occupant classification system, refer to the Front Passenger Occupant Classification System (page 2-65) for details.
If your vehicle is equipped with a front passenger occupant classification system, the front passenger air bag deactivation indicator light illuminates for a specified time after the ignition is switched ON.



Small children must be protected by a child-restraint system as stipulated by law in every state and province. In certain states and provinces, larger children must use a child-restraint system (page 2-29).

Carefully consider which child-restraint system is necessary for your child and follow the installation directions in this Owner's Manual as well as the child-restraint system manufacturer's instructions.

⚠ WARNING

Seat belts must be worn in air bag equipped vehicles:

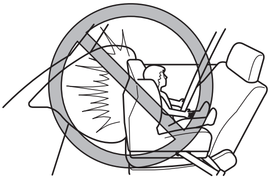
Depending only on the air bags for protection during an accident is dangerous. Alone, air bags may not prevent serious injuries. The appropriate air bags can be expected to inflate only in the first accident, such as frontal, near frontal or side collisions or roll-over accidents that are at least moderate. Vehicle occupants should always wear seat belts.

Children should not ride in the front passenger seat:

Placing a child, 12 years or under, in the front seat is dangerous. The child could be hit by a deploying air bag and be seriously injured or even killed. A sleeping child is more likely to lean against the door and be hit by the side air bag in moderate collision to the front-passenger side of the vehicle. Whenever possible, always secure a child 12 years and under on the rear seats with an appropriate child-restraint system for the child's age and size.

Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:

Rear-facing child-restraint systems on the front seat are particularly dangerous even though you may feel assured that a front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates. The child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child.



Do not sit too close to the driver and front passenger air bags:

Sitting too close to the driver and front passenger air bag modules or placing hands or feet on them is extremely dangerous. The driver and front passenger air bags inflate with great force and speed. Serious injuries could occur if someone is too close. The driver should always hold onto only the rim of the steering wheel. The front seat passenger should keep both feet on the floor. Front seat occupants should adjust their seats as far back as possible and always sit upright against the seatbacks with seat belts worn properly.

Sit in the center of the seat and wear seat belts properly:

Sitting too close to the side air bag modules or placing hands on them, or sleeping up against the door or hanging out the windows is extremely dangerous. The side and curtain air bags inflate with great force and speed directly expanding along the door on the side the car is hit. Serious injury could occur if someone is sitting too close to the door or leaning against a window, or if rear seat occupants grab the sides of the front seatbacks. Give the side and curtain air bags room to work by sitting in the center of the seat while the vehicle is moving with seat belts worn properly.

Do not attach objects on or around the area where driver and front passenger air bags deploy:

Attaching an object to the driver and front passenger air bag modules or placing something in front of them is dangerous. In an accident, an object could interfere with air bag inflation and injure the occupants.

Do not attach objects on or around the area where a side air bag deploys:

Attaching objects to the front seat in such a way as to cover the outboard side of the seat in any way is dangerous. In an accident the object could interfere with the side air bag, which inflates from the outboard side of the front seats, impeding the added protection of the side air bag system or redirecting the air bag in a way that is dangerous. Furthermore, the bag could be cut open releasing the gas.

Do not hang net bags, map pouches or backpacks with side straps on the front seats. Never use seat covers on the front seats. Always keep the side air bag modules in your front seats free to deploy in the event of a side collision.

Do not attach objects on or around the area where a curtain air bag deploys:

Attaching objects to the areas where the curtain air bag activates such as on the windshield glass, side door glass, front and rear window pillars and along the roof edge and assist grips is dangerous. In an accident the object could interfere with the curtain air bag, which inflates from the front and rear window pillars and along the roof edge, impeding the added protection of the curtain air bag system or redirecting the air bag in a way that is dangerous. Furthermore, the bag could be cut open releasing the gas.

Do not place hangers or any other objects on the assist grips. When hanging clothes, hang them on the coat hook directly. Always keep the curtain air bag modules free to deploy in the event of a side collision or roll-over accident.

Do not touch the components of the supplemental restraint system after the air bags have inflated:

Touching the components of the supplemental restraint system after the air bags have inflated is dangerous. Immediately after inflation, they are very hot. You could get burned.

Never install any front-end equipment to your vehicle:

Installation of front-end equipment, such as frontal protection bar (kangaroo bar, bull bar, push bar, or other similar devices), snowplow, or winches, is dangerous. The air bag crash sensor system could be affected. This could cause air bags to inflate unexpectedly, or it could prevent the air bags from inflating during an accident. Front occupants could be seriously injured.

Do not modify the suspension:

Modifying the vehicle suspension is dangerous. If the vehicle's height or the suspension is modified, the vehicle will be unable to accurately detect a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.

To prevent false detection by the air bag sensor system, heed the following:

- *Do not use tires or wheels other than those specified for your Mazda:*
  Use of any tire or wheel other than those specified for your Mazda (page 9-9) is dangerous. Use of such wheels will prevent the vehicle's accident detections system from accurately detecting a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.
- *Do not overload your vehicle:*
  Overloading your vehicle is dangerous as it could prevent the air bag crash sensor system from accurately detecting a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries. The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) for your vehicle are on the Motor Vehicle Safety Standard Label on the driver's door frame. Do not exceed these ratings.
- *Do not drive the vehicle off-road:*
  Driving your Mazda off-road is dangerous because the vehicle has not been designed to do so. Driving the vehicle off-road could prevent the air bag crash sensor system from accurately detecting a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.

Do not modify a front door or leave any damage unrepaired. Always have an Authorized Mazda Dealer inspect a damaged front door:

Modifying a front door or leaving any damage unrepaired is dangerous. Each front door has a side crash sensor as a component of the supplemental restraint system. If holes are drilled in a front door, a door speaker is left removed, or a damaged door is left unrepaired, the sensor could be adversely affected causing it to not detect the pressure of an impact correctly during a side collision. If a sensor does not detect a side impact correctly, the side and curtain air bags and the front seat belt pretensioner may not operate normally which could result in serious injury to occupants.

Do not modify the supplemental restraint system:

Modifying the components or wiring of the supplemental restraint system is dangerous. You could accidentally activate it or make it inoperable. Do not make any modifications to the supplemental restraint system. This includes installing trim, badges, or anything else over the air bag modules. It also includes installing extra electrical equipment on or near system components or wiring. An Authorized Mazda Dealer can provide the special care needed in the removal and installation of front seats. It is important to protect the air bag wiring and connections to assure that the bags do not accidentally deploy, and that the front passenger occupant classification system and the seats retain an undamaged air bag connection.

Do not place luggage or other objects under the front seats:

Placing luggage or other objects under the front seats is dangerous. The components essential to the supplemental restraint system could be damaged, and in the event of a side collision, the appropriate air bags may not deploy, which could result in death or serious injury. To prevent damage to the components essential to the supplemental restraint system, do not place luggage or other objects under the front seats.

Do not operate a vehicle with damaged air bag/seat belt pretensioner system components:

Expended or damaged air bag/seat belt pretensioner system components must be replaced after any collision which caused them to deploy or damage them. Only a trained Authorized Mazda Dealer can fully evaluate these systems to see that they will work in any subsequent accident. Driving with an expended or damaged air bag or pretensioner unit will not afford you the necessary protection in the event of any subsequent accident which could result in serious injury or death.

Do not remove interior air bag parts:

Removing any components such as the front seats, front dashboard, the steering wheel or parts on the front and rear window pillars and along the roof edge, containing air bag parts or sensors is dangerous. These parts contain essential air bag components. The air bag could accidentally activate and cause serious injuries. Always have an Authorized Mazda Dealer remove these parts.

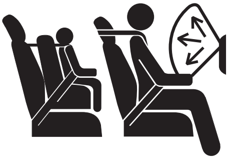
Properly dispose of the air bag system:

Improper disposal of an air bag or a vehicle with live air bags in it can be extremely dangerous. Unless all safety procedures are followed, injury could result. Have an Authorized Mazda Dealer safely dispose of the air bag system or scrap an air bag equipped vehicle.

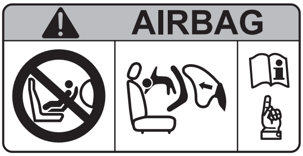
NOTE

- *If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, contact an Authorized Mazda Dealer, refer to "Customer Assistance (U.S.A.)" (page 8-2).*
- *When an air bag deploys, a loud inflation noise can be heard and some smoke will be released. Neither is likely to cause injury, however, the texture of the air bags may cause light skin injuries on body parts not covered with clothing through friction.*
- *Should you sell your Mazda, we urge you to tell the new owner of its air bag systems and that familiarization with all instructions about them, from the Owner's Manual, is important.*
- *This highly-visible label is displayed which warns against the use of a rear-facing child-restraint system on the front passenger seat.*

(Except Mexico)

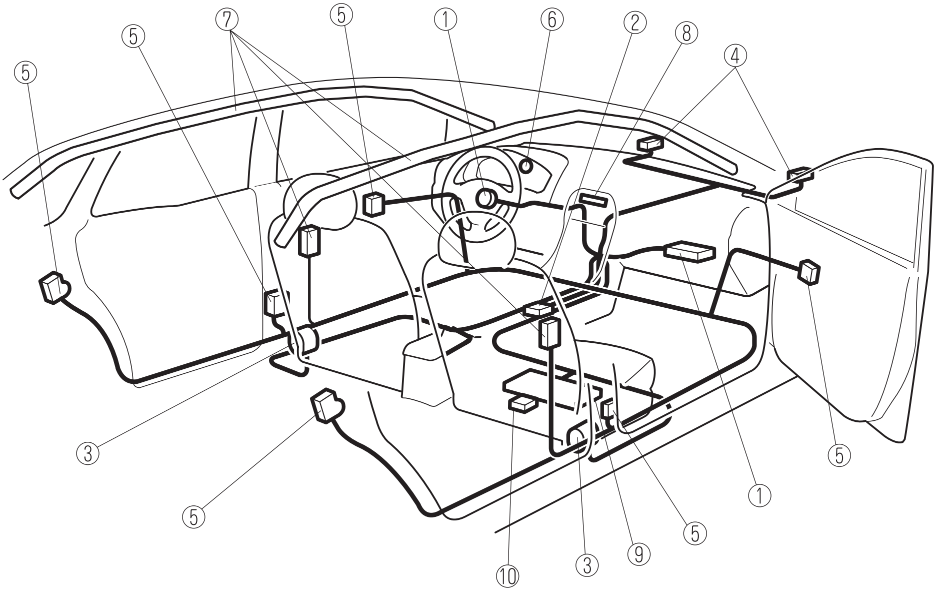


(Mexico)



Supplemental Restraint System Components

(With Front Passenger Occupant Classification System)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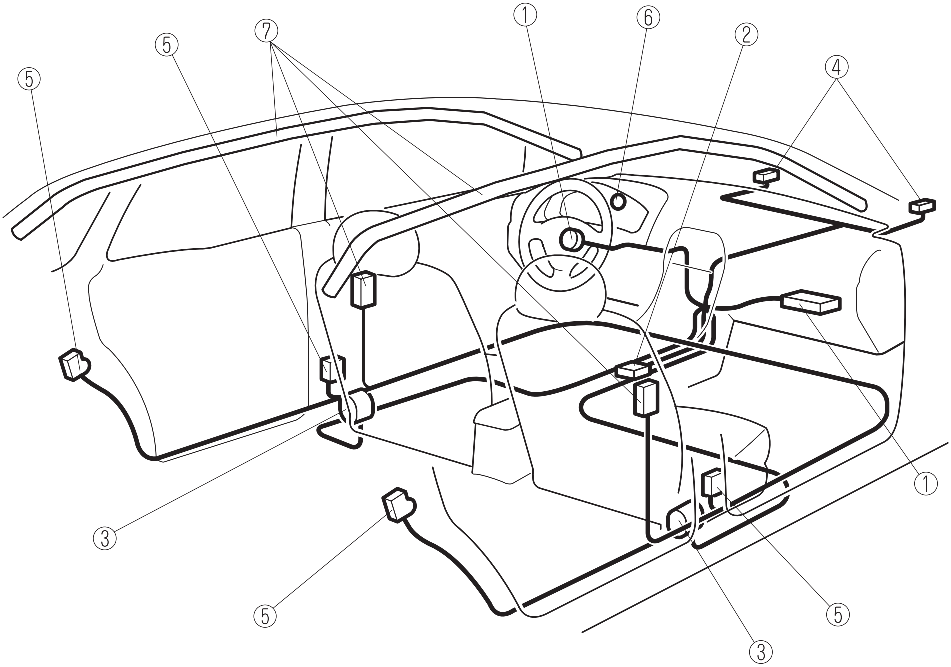
SRS Air Bags

(Without Front Passenger Occupant Classification System)



① Driver/Front passenger inflators and air bags

② Roll-over sensor*, crash sensors, and diagnostic module (SAS unit)

③ Seat belt pretensioners (page 2-25)

④ Front air bag sensors

⑤ Side crash sensors

⑥ Air bag/seat belt pretensioner system warning light (page 4-32)

⑦ Side and curtain inflators and air bags

⑧ Front passenger air bag deactivation indicator light* (page 2-65)

⑨ Front passenger occupant classification sensor* (page 2-65)

⑩ Front passenger occupant classification module*

*Some models.

How the SRS Air Bags Work

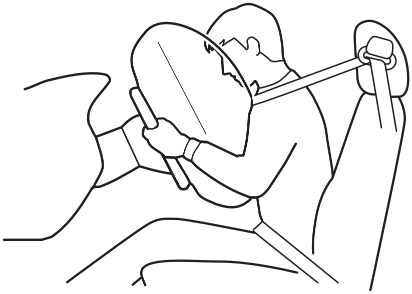
Your Mazda is equipped with the following types of SRS air bags. SRS air bags are designed to work together with the seat belts to help to reduce injuries during an accident. The SRS air bags are designed to provide further protection for passengers in addition to the seat belt functions. Be sure to wear seat belts properly.

▼Front Seat Belt Pretensioners

The front seat belt pretensioners are designed to deploy in moderate or severe frontal, near frontal collisions.
In addition, the pretensioners operate when a side collision (only on the side in which the collision occurs) or a roll-over accident is detected. The pretensioners operate differently depending on what types of air bags are equipped. For more details about seat belt pretensioner operation, refer to the SRS Air Bag Deployment Criteria (page 2-62).

▼Driver Air Bag

The driver's air bag is mounted in the steering wheel.
When air bag crash sensors detect a frontal impact of greater than moderate force, the driver's air bag inflates quickly helping to reduce injury mainly to the driver's head or chest caused by directly hitting the steering wheel.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-62).
(With Front Passenger Occupant Classification System)
The driver's dual-stage air bag controls air bag inflation in two energy stages. During an impact of moderate severity, the driver's air bag deploys with lesser energy, whereas during more severe impacts, it deploys with more energy.

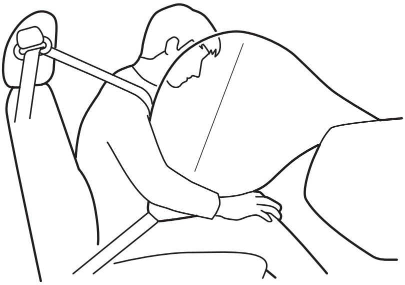


▼Front Passenger Air Bag

The front passenger air bag is mounted in the front passenger dashboard.
The inflation mechanism for the front passenger air bag is the same as the driver's air bag.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-62).

(With Front Passenger Occupant Classification System)

In addition, the front passenger air bag is designed to only deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat. For details, refer to the front passenger occupant classification system (page 2-65).

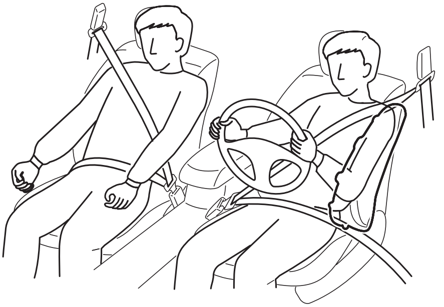


DEP DEALER ePROCESS

▼Side Air Bags

The side air bags are mounted in the outboard sides of the front seatbacks.
When the air bag crash sensors detect a side impact of greater than moderate force, the system inflates the side air bag only on the side in which the vehicle was hit. The side air bag inflates quickly to reduce injury to the driver or front passenger's chest caused by directly hitting interior parts such as a door or window.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-62).

(With Front Passenger Occupant Classification System)
In addition, the front passenger side bag is designed to only deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat. For details, refer to the front passenger occupant classification system (page 2-65).

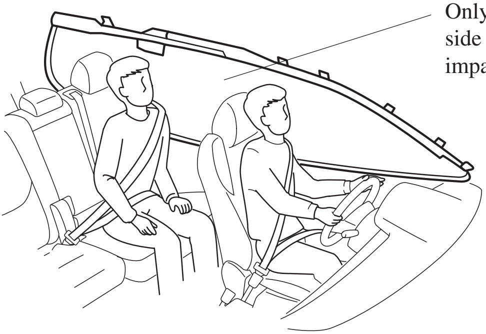


▼Curtain Air Bags

The curtain air bags are mounted in the front and rear window pillars, and the roof edge along both sides.
When the air bag crash sensors detect a side impact of greater than moderate force, the curtain air bag inflates quickly and helps to reduce injury mainly to the rear outboard passenger's head caused by directly hitting interior parts such as a door or window.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-62).

In a side impact:

Greater than moderate impact to one side of the vehicle will cause the curtain air bag on that side only to inflate.

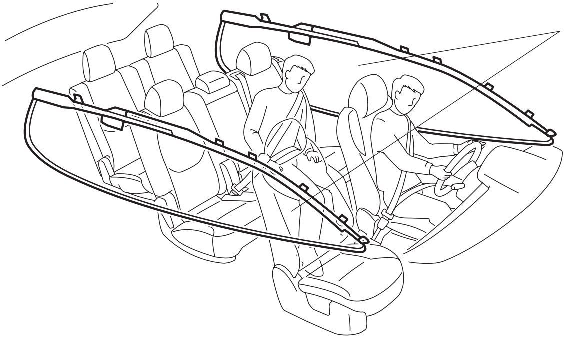


Only one side curtain air bag will deploy on the side of the vehicle that receives the force of an impact.

(With Front Passenger Occupant Classification System)

In a roll-over:

In response to a vehicle roll-over, both curtain air bags inflate.



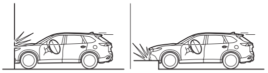
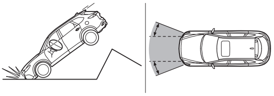
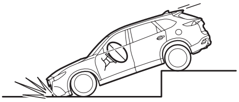
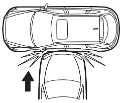
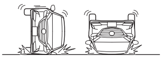
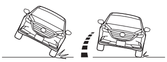
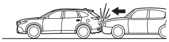
Both curtain air bags will deploy after the roll-over accident is detected.

▼Warning Light/Beep

A system malfunction or operation conditions are indicated by a warning.
Refer to Warning/Indicator Lights on page 4-31.
Refer to Warning Sound is Activated on page 7-45.

SRS Air Bag Deployment Criteria

This chart indicates the applicable SRS equipment that will deploy depending on the type of collision.
(The illustrations are the representative cases of collisions.)

	Types of collision			
	A severe frontal/near frontal collision	A severe side collision[*2]	A roll-over/near roll-over[*3]	A rear collision
SRS equipment	  		 	
Front seat belt pretensioner	X[*1] (both sides)	X[*1] (impact side only)	X[*1] (both sides)	No air bag and front seat belt pretensioner will be activated in a rear collision.
Driver air bag	X			
Front passenger air bag	X[*1]			
Side air bag		X[*1] (impact side only)		
Curtain air bag		X (impact side only)	X (both sides)	

X: The SRS air bag equipment is designed to deploy in a collision.

*1 **(With Front Passenger Occupant Classification System)**
The front passenger front and side air bags and the seat belt pretensioner are designed to deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat.

*2 In a side collision, the seat belt pretensioners and the side/curtain air bags deploy (only on the side in which the collision occurs).

*3 **(With Front Passenger Occupant Classification System)**
In a roll-over accident, the seat belt pretensioners and the curtain air bags deploy.

NOTE

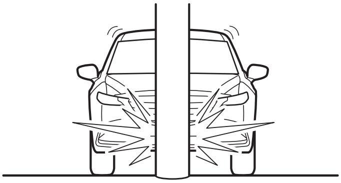
In a frontal offset collision, the equipped air bags and pretensioners may all deploy depending on the direction, angle, and rate of impact.

Limitations to SRS Air Bag

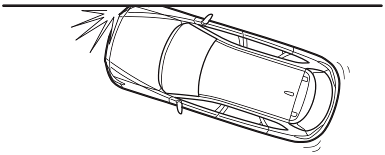
In severe collisions such as those described previously in "SRS Air Bag Deployment Criteria", the applicable SRS air bag equipment will deploy. However, in some accidents, the equipment may not deploy depending on the type of collision and its severity.

Limitations to front/near front collision detection:
The following illustrations are examples of front/near front collisions that may not be detected as severe enough to deploy the SRS air bag equipment.

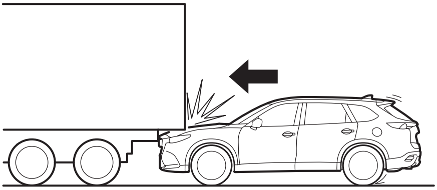
Impacts involving trees or poles



Frontal offset impact to the vehicle

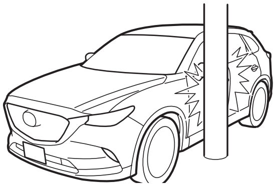


Rear-ending or running under a truck's tail gate

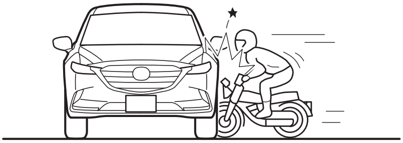


Limitations to side collision detection:
The following illustrations are examples of side collisions that may not be detected as severe enough to deploy the SRS air bag equipment.

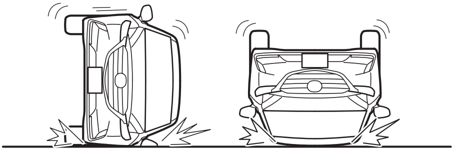
Side impacts involving trees or poles



Side impacts with two-wheeled vehicles

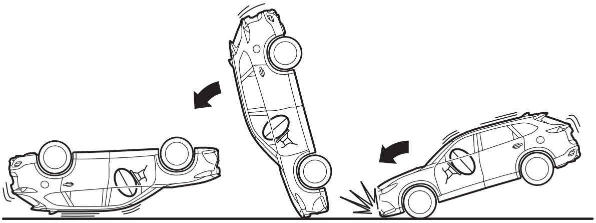


Roll-over (Without Driver and Front Passenger Occupant Classification System)



(With Front Passenger Occupant Classification System)
Limitations to roll-over detection:
The following illustration is an example of an accident that may not be detected as a roll-over accident. Therefore, the front seat belt pretensioners and curtain air bags may not deploy.

Pitch end over end



Front Passenger Occupant Classification System*

First, please read "Supplemental Restraint System (SRS) Precautions" (page 2-48) carefully.

▼Front Passenger Occupant Classification Sensor

Your vehicle is equipped with a front passenger occupant classification sensor as a part of the supplemental restraint system. This sensor is equipped in the front passenger's seat cushion. This sensor measures the electrostatic capacity of the front passenger's seat. The SAS unit is designed to prevent the front passenger front and side air bags and seat belt pretensioner system from deploying if the front passenger air bag deactivation indicator light turns on.
To reduce the chance of injuries caused by deployment of the front passenger air bag, the system deactivates the front passenger front and side air bags and also the seat belt pretensioner system when the front passenger air bag deactivation indicator light turns on. Refer to the following table for the front passenger air bag deactivation indicator light illumination conditions.

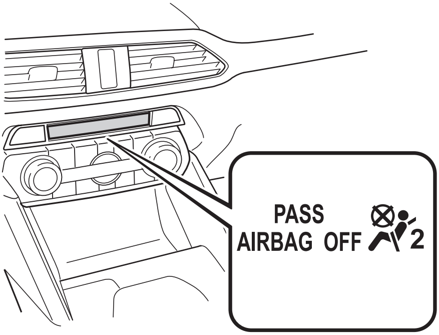
This system shuts off the front passenger front and side air bags and seat belt pretensioner system, so make sure the front passenger air bag deactivation indicator light turns on according to the following table.

The air bag/front seat belt pretensioner system warning light flashes and the front passenger air bag deactivation indicator light illuminates if the sensors have a possible malfunction. If this happens, the front passenger front and side air bags and seat belt pretensioner system will not deploy.

*Some models.

Front passenger air bag deactivation indicator light

This indicator light turns on to remind you that the front passenger front and side air bags and seat belt pretensioner will not deploy during a collision.



If the front passenger occupant classification sensor is normal, the indicator light turns on when the ignition is switched ON. The light turns off after a few seconds. Then, the indicator light turns on or is off under the following conditions:

Front passenger air bag deactivation indicator light on/off condition chart

Condition detected by the front passenger occupant classification system	Front passenger air bag deactivation indicator light	Front passenger front and side air bags	Front passenger seat belt pretensioner system
Empty (Not occupied)	On	Deactivated	Deactivated
A child less than 1 year old is seated in a child-restraint system	On	Deactivated	Deactivated
Child[*1]	On or off	Deactivated or ready	Deactivated or ready
Adult[*2]	Off	Ready	Ready

[*1] The occupant classification sensor may not detect a child seated on the seat, in a child-restraint system, or a junior seat depending on the child's physical size and seated posture.

[*2] If a smaller adult sits on the front passenger seat, the sensors might detect the person as being a child depending on the person's physique.

The curtain air bag is ready for inflating regardless of what the front passenger air bag deactivation indicator light on/off condition chart indicates.

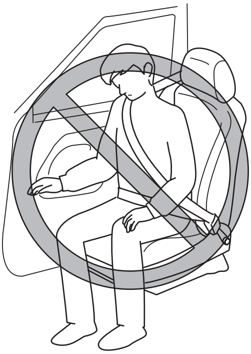
If the front passenger air bag deactivation indicator light does not turn on when the ignition is switched ON and does not turn on as indicated in the front passenger air bag deactivation indicator light on/off condition chart, do not allow an occupant to sit in the front passenger seat and consult an Authorized Mazda Dealer as soon as possible. The system may not work properly in an accident.

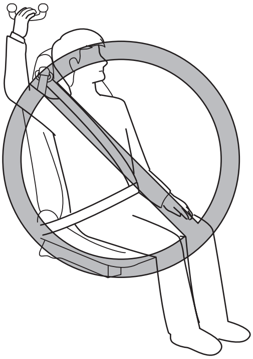
⚠ WARNING

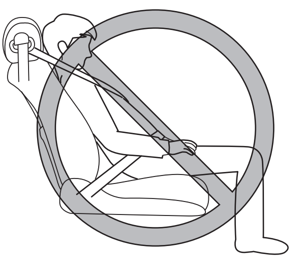
Do not allow an occupant in the front passenger's seat to sit with a posture which makes it difficult for the front passenger occupant classification sensor to detect the occupant correctly:

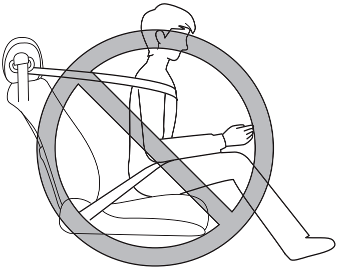
Sitting in the front passenger's seat with a posture which makes it difficult for the front passenger occupant classification sensor to detect the occupant correctly is dangerous. If the front passenger occupant classification sensor cannot detect the occupant sitting on the front passenger's seat correctly, the front passenger front and side air bags and pretensioner system may not operate (non-deploy) or they may operate (deploy) accidentally. The front passenger will not have the supplementary protection of the air bags or the accidental operation (deployment) of the air bags could result in serious injury or death.
Under the following conditions, the front passenger occupant classification sensor cannot detect a passenger sitting on the front passenger's seat correctly and the deployment/non-deployment of the air bags cannot be controlled as indicated in the front passenger air bag deactivation indicator light on/off condition chart. For example:

- *A front passenger is seated as shown in the following figure:*









- *A rear passenger pushes up on the front passenger seat with their feet.*
- *Luggage or other items placed under the front passenger seat or between the front passenger seat and driver seat that push up the front passenger seat bottom.*

- *An object, such as a seat cushion, is put on the front passenger's seat or between the passenger's back and the seatback.*
- *A seat cover is put on the front passenger's seat.*
- *Luggage or other items are placed on the seat with the child in the child-restraint system.*
- *A rear passenger or luggage push or pull down on the front passenger seatback.*
- *Luggage or other items are placed on the seatback or hung on the head restraint.*
- *The seat is washed.*
- *Liquids are spilled on the seat.*
- *The front passenger seat is moved backward, pushing into luggage or other items placed behind it.*
- *The front passenger seatback contacts the rear seat.*
- *Luggage or other items are placed between the front passenger seat and driver seat.*
- *An electric device is put on the front passenger's seat.*
- *An additional electrical device, such as a seat warmer is installed to the surface of the front passenger seat.*

The front passenger front and side air bags and seat belt pretensioner systems will deactivate if the front passenger air bag deactivation indicator light turns on.

DEP DEALER ePROCESS

⚠ CAUTION

- *To assure proper deployment of the front air bag and to prevent damage to the sensor in the front seat cushion:*
    - *Do not place sharp objects on the front seat cushion or leave heavy luggage on them.*
    - *Do not spill any liquids on the front seats or under the front seats.*

- *To allow the sensors to function properly, always perform the following:*
    - *Adjust the front seats as far back as possible and always sit upright against the seatbacks with seat belts worn properly.*
    - *If you place your child on the front passenger seat, secure the child-restraint system properly and slide the front passenger seat as far back as possible (page 2-37).*

NOTE

- *The system requires about 10 seconds to alternate between turning the front passenger front and side air bags and seat belt pretensioner system on or off.*
- *The front passenger air bag deactivation indicator light may turn on repeatedly if luggage or other items are put on the front passenger seat, or if the temperature of the vehicle's interior changes suddenly.*
- *The front passenger air bag deactivation indicator light may turn on for 10 seconds if the electrostatic capacity on the front passenger seat changes.*
- *The air bag/front seat belt pretensioner system warning light might turn on if the front passenger seat receives a severe impact.*
- *If the front passenger air bag deactivation indicator light does not turn on after installing a child-restraint system on the front passenger seat, first, re-install your child-restraint system according to the procedure in this owner's manual. Then, if the front passenger air bag deactivation indicator light still does not turn on, install the child-restraint system on the rear seat and consult an Authorized Mazda Dealer as soon as possible.*
- *If the front passenger air bag deactivation indicator light turns on when an occupant is seated directly in the front passenger seat, have the passenger re-adjust their posture by sitting with their feet on the floor, and then re-fastening the seat belt. If the front passenger air bag deactivation indicator light remains turned on, move the passenger to the rear seat. If sitting in the rear seat is not possible, slide the front passenger seat as far back as possible. Consult an Authorized Mazda Dealer as soon as possible.*

Constant Monitoring

The following components of the air bag systems are monitored by a diagnostic system:

- Crash sensors, and diagnostic module (SAS unit)
- Front air bag sensors
- Air bag modules
- Side crash sensors
- Air bag/Front seat belt pretensioner system warning light
- Front seat belt pretensioners
- Related wiring

(With Front Passenger Occupant Classification System)

- Front passenger air bag deactivation indicator light
- Front passenger occupant classification sensor
- Front passenger occupant classification module

The diagnostic module continuously monitors the system's readiness. This begins when the ignition is switched ON and continues while the vehicle is being driven.

3 Before Driving

Use of various features, including keys, doors, mirrors and windows.

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Keys 3-2
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*Some models.

Keys

WARNING

Do not leave the key in your vehicle with children and keep them in a place where your children will not find or play with them:

Leaving children in a vehicle with the key is dangerous. This could result in someone being badly injured or even killed. Children may find these keys to be an interesting toy to play with and could cause the power windows or other controls to operate, or even make the vehicle move.

CAUTION

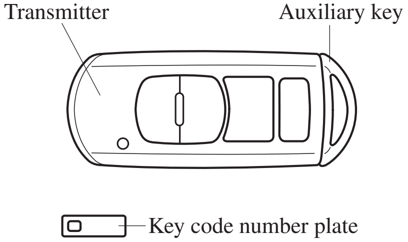
- *Because the key (transmitter) uses low-intensity radio waves, it may not function correctly under the following conditions:*
    - *The key is carried with communication devices such as cellular phones.*
    - *The key contacts or is covered by a metal object.*
    - *The key is near electronic devices such as personal computers.*
    - *Non-Mazda genuine electronic equipment is installed in the vehicle.*
    - *There is equipment which discharges radio waves near the vehicle.*
- *The key (transmitter) may consume battery power excessively if it receives high-intensity radio waves. Do not place the key near electronic devices such as televisions or personal computers.*
- *To avoid damage to the key (transmitter), DO NOT:*
    - *Drop the key.*
    - *Get the key wet.*
    - *Disassemble the key.*
    - *Expose the key to high temperatures on places such as the dashboard or hood, under direct sunlight.*
    - *Expose the key to any kind of magnetic field.*
    - *Place heavy objects on the key.*
    - *Put the key in an ultrasonic cleaner.*
    - *Put any magnetized objects close to the key.*

A code number is stamped on the plate attached to the key set; detach this plate and store it in a safe place (not in the vehicle) for use if you need to make a replacement key (auxiliary key).
Also write down the code number and keep it in a separate safe and convenient place, but not in the vehicle.

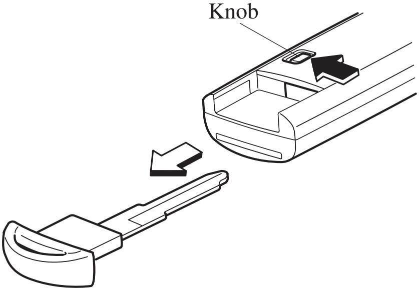
If your key (auxiliary key) is lost, consult your Authorized Mazda Dealer and have your code number ready.

NOTE

The driver must carry the key to ensure the system functions properly.



To use the auxiliary key, pull out the auxiliary key from the transmitter while pressing the knob.



Keyless Entry System

This system uses the key buttons to remotely lock and unlock the doors and the liftgate, and opens/closes the liftgate.
The system can start the engine without having to take the key out of your purse or pocket.
It can also help you signal for attention or help.
Operating the theft-deterrent system is also possible on theft-deterrent system-equipped vehicles.

System malfunctions or warnings are indicated by the following warning lights or beeps.
For vehicles with the type A instrument cluster, check the displayed message for more information and, if necessary, have the vehicle inspected at an Authorized Mazda Dealer, according to the indication.

- KEY Warning Light (Red)
  Refer to Warning/Indicator Lights on page 4-31.
- Ignition Not Switched Off (STOP) Warning Beep
  Refer to Ignition Not Switched Off (STOP) Warning Beep on page 7-46.
- Key Removed from Vehicle Warning Beep
  Refer to Key Removed from Vehicle Warning Beep on page 7-47.

If you have a problem with the key, consult an Authorized Mazda Dealer.

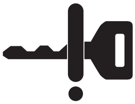
If your key is lost or stolen, consult an Authorized Mazda Dealer as soon as possible for a replacement and to make the lost or stolen key inoperative.

⚠ CAUTION

Radio equipment like this is governed by laws in the United States. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

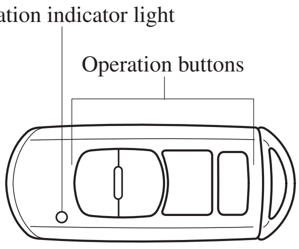
NOTE

- *The keyless entry system operation may vary due to local conditions.*
- *The keyless entry system is fully operational (door/liftgate lock/unlock) when the ignition is switched off. The system does not operate if the ignition is switched to any position other than off.*
- *If the key does not operate when pressing a button or the operational range becomes too small, the battery may be weak. To install a new battery, refer to Key Battery Replacement (page 6-40).*
- *Battery life is about one year. Replace the battery with a new one if the KEY indicator light (green) flashes in the instrument cluster (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster). Replacing the battery about once a year is recommended because the KEY warning light/indicator light may not illuminate or flash depending on the rate of battery depletion.*



- *Additional keys can be obtained at an Authorized Mazda Dealer. Up to 6 keys can be used with the keyless functions per vehicle. Bring all keys to an Authorized Mazda Dealer when additional keys are required.*

▼Transmitter



NOTE

- *The headlights turn on/off by operating the transmitter. Refer to Leaving Home Light on page 4-53.*
- ***(With theft-deterrent system)***
  The hazard warning lights flash when the theft-deterrent system is armed or turned off.
  Refer to Theft-Deterrent System on page 3-48.
- ***(With the advanced keyless function)***
  A beep sound can be heard for confirmation when the doors and the liftgate are locked/unlocked using the key. If you prefer, the beep sound can be turned off.
  The volume of the beep sound can also be changed.
  Refer to Personalization Features on page 9-11.
  Use the following procedure to change the setting.

  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*

3. *Within 30 seconds of opening the driver's door, press and hold the LOCK button on the key for 5 seconds or longer.*
   All of the doors and the liftgate lock and the beep sound activates at the currently set volume. The setting changes each time the LOCK button on the key is pressed and the beep sound activates at the set volume. (If the beep sound has been set to not activate, it will not activate.)
4. *The setting change is completed by doing any one of the following:*
   - *Switching the ignition to ACC or ON.*
   - *Closing the driver's door.*
   - *Opening the liftgate.*
   - *Not operating the key for 10 seconds.*
   - *Pressing any button except the LOCK button on the key.*
   - *Pressing a request switch.*

The operation indicator light flashes when the buttons are pressed.

Lock button

To lock the doors and the liftgate, press the lock button and the hazard warning lights will flash once.
(With the advanced keyless function)
A beep sound will be heard once.

To confirm that all doors and the liftgate have been locked, press the lock button again within 5 seconds. If they are closed and locked, the horn will sound.

🔒

NOTE

- *The doors and the liftgate can be locked by pressing the lock button while any other door or the liftgate is open. The hazard warning lights will not flash.*
  When the lock button is pressed while any door is open and then the door is closed, all the doors and the liftgate are locked.
- *Confirm that all doors and the liftgate are locked visually or audibly by use of the double click.*
- *Make sure all doors and the liftgate are locked after pressing the button.*
- ***(With theft-deterrent system)***
  When the doors are locked by pressing the lock button on the key while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.

Unlock button

To unlock the driver's door, press the unlock button and the hazard warning lights will flash twice.
(With the advanced keyless function)
A beep sound will be heard twice.

To unlock all doors and the liftgate, press the unlock button again within 3 seconds and two more beep sounds will be heard.

🔓

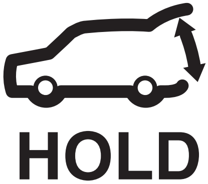
NOTE

- *The system can be set to unlock all doors by performing a single operation. Refer to Personalization Features on page 9-11.*
  Use the following procedure to change the setting.
  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*
  3. *Within 30 seconds of opening the driver's door, press and hold the UNLOCK button on the key for 5 seconds or longer (the sound of the doors locking/unlocking can be heard).*
     After this, the system switches the setting each time the UNLOCK button is pressed (the sound of the doors locking/unlocking can be heard).
  4. *The setting change is completed by doing any one of the following:*
     - *Switching the ignition to ACC or ON.*
     - *Closing the driver's door.*
     - *Opening the liftgate.*
     - *Not operating the key for 10 seconds.*
     - *Pressing any button except the UNLOCK button on the key.*
     - *Pressing a request switch.*
- ***(Auto re-lock function)***
  After unlocking with the key, all doors and the liftgate will automatically lock if any of the following operations are not performed within about 60 seconds. If your vehicle has a theft-deterrent system, the hazard warning lights will flash for confirmation.
  The time required for the doors to lock automatically can be changed.
  Refer to Personalization Features on page 9-11.
  - *A door or the liftgate is opened.*
  - *The ignition is switched to any position other than off.*
- ***(With theft-deterrent system)***
  When the doors are unlocked by pressing the unlock button on the key while the theft-deterrent system is turned off, the hazard warning lights will flash twice to indicate that the system is turned off.

Power liftgate button*

To open/close the liftgate, press the power liftgate button for one second or more with the liftgate in the fully closed/open position.

The hazard warning lights flash twice and the liftgate opens/closes after the beep sounds.



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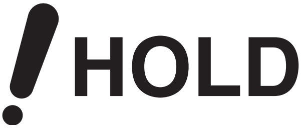
*Some models.

Panic button

If you witness from a distance someone attempting to break into or damage your vehicle, press and hold the panic button to activate the vehicle's alarm. Call emergency services if necessary.



NOTE

The panic button will work whether any door or the liftgate is open or closed.

(Turning on the alarm)

Pressing the panic button for 1 second or more will trigger the alarm for about 2 minutes and 30 seconds, and the following will occur:

- The horn sounds intermittently.
- The hazard warning lights flash.

(Turning off the alarm)

The alarm stops by pressing any button on the key.

▼ Operational Range

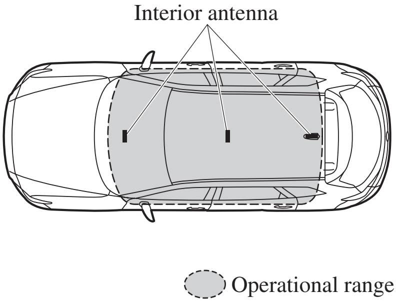
The system operates only when the driver is in the vehicle or within operational range while the key is being carried.

Starting the Engine

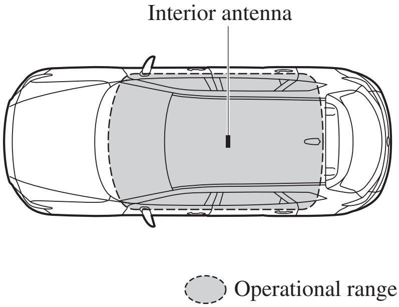
NOTE

- *Starting the engine may be possible even if the key is outside of the vehicle and extremely close to a door and window, however, always start the engine from the driver's seat.*
  If the vehicle is started and the key is not in the vehicle, the vehicle will not restart after it is shut off and the ignition is switched to off.
- *The luggage compartment is out of the assured operational range, however, if the key (transmitter) is operable the engine will start.*

With the advanced keyless function



Without the advanced keyless function



NOTE

The engine may not start if the key is placed in the following areas:

- *Around the dashboard*
- *In the storage compartments such as the glove compartment or the center console*

▼Key Suspend Function

If a key is left in the vehicle, the functions of the key left in the vehicle are temporarily suspended to prevent theft of the vehicle.
To restore the functions, press the unlock button on the functions-suspended key in the vehicle.

Advanced Keyless Entry System*

WARNING

Radio waves from the key may affect medical devices such as pacemakers:

> *Before using the key near people who use medical devices, ask the medical device manufacturer or your physician if radio waves from the key will affect the device.*

The advanced keyless function allows you to lock/unlock the door and the liftgate, or open the liftgate while carrying the key.

System malfunctions or warnings are indicated by the following warning beeps.

- Request switch Inoperable Warning Beep
  Refer to Request Switch Inoperable Warning Beep (With the advanced keyless function) on page 7-47.
- Key Left-in-luggage Compartment Warning Beep
  Refer to Key Left-in-luggage Compartment Warning Beep (With the advanced keyless function) on page 7-47.
- Key Left-in-vehicle Warning Beep
  Refer to Key Left-in-vehicle Warning Beep (With the advanced keyless function) on page 7-47.

NOTE

The advanced keyless entry system functions can be deactivated to prevent any possible adverse effect on a user wearing a pacemaker or other medical device. If the system is deactivated, you will be unable to start the engine by carrying the key. Consult an Authorized Mazda Dealer for details. If the advanced keyless entry system has been deactivated, you can start the engine by following the procedure indicated when the key battery goes dead.

Refer to Engine Start Function When Key Battery is Dead on page 4-8.

*Some models.

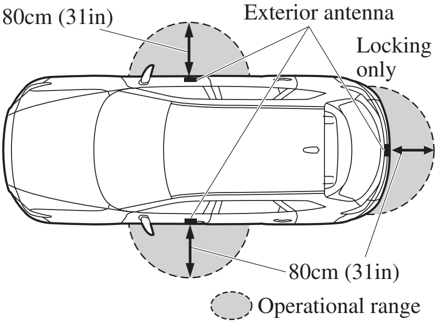
Operational Range

The system operates only when the driver is in the vehicle or within operational range while the key is being carried.

NOTE

When the battery power is low, or in places where there are high-intensity radio waves or noise, the operational range may become narrower or the system may not operate. For determining battery replacement, Refer to Keyless Entry System on page 3-3.

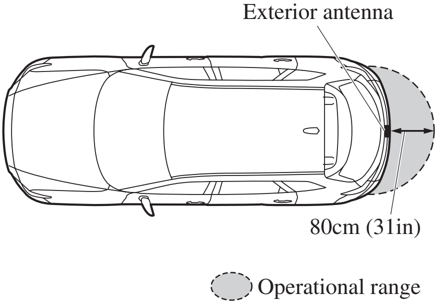
▼Locking, Unlocking the Doors and the Liftgate


80cm (31in)
Exterior antenna
Locking only
80cm (31in)
Operational range

NOTE

- *The system may not operate if you are too close to the windows or door handles, or liftgate.*
- *If the key is left in the following areas and you leave the vehicle, the doors may be locked depending on the radio wave conditions even if the key is left in the vehicle.*
  - *Around the dashboard*
  - *In the storage compartments such as the glove compartment or the center console*
  - *Next to a communication device such as a mobile phone*

▼Opening the Liftgate


Exterior antenna
80cm (31in)
Operational range

Door Locks

⚠ WARNING

Always take all children and pets with you or leave a responsible person with them:

Leaving a child or a pet unattended in a parked vehicle is dangerous. In hot weather, temperatures inside a vehicle can become high enough to cause brain damage or even death.

Do not leave the key in your vehicle with children and keep them in a place where your children will not find or play with them:

Leaving children in a vehicle with the key is dangerous. This could result in someone being badly injured or even killed.

Keep all doors locked when driving:

Unlocked doors in a moving vehicle are dangerous. Passengers can fall out if a door is accidentally opened and can more easily be thrown out in an accident.

Always close all the windows and moonroof, lock the doors and the liftgate and take the key with you when leaving your vehicle unattended:

Leaving your vehicle unlocked is dangerous as children could lock themselves in a hot vehicle, which could result in death. Also, a vehicle left unlocked becomes an easy target for thieves and intruders.

After closing the doors and the liftgate, always verify that they are securely closed:

Doors and the liftgate not securely closed are dangerous, if the vehicle is driven with a door and the liftgate not securely closed, the door and the liftgate could open unexpectedly resulting in an accident.

Always confirm the safety around the vehicle before opening a door and the liftgate:

Suddenly opening a door and the liftgate is dangerous. A passing vehicle or a pedestrian could be hit and cause an accident.

⚠ CAUTION

Always confirm the conditions around the vehicle before opening/closing the doors and the liftgate and use caution during strong winds or when parked on an incline. Not being aware of the conditions around the vehicle is dangerous because fingers could get caught in the door and the liftgate or a passing pedestrian could be hit, resulting in an unexpected accident or injury.

NOTE

- *Always stop the engine and lock the doors. In addition, to prevent theft of valuables, do not leave them inside the cabin.*
- *If the key is left in the following areas and you leave the vehicle, the doors may be locked depending on the radio wave conditions even if the key is left in the vehicle.*
  - *Around the dashboard*
  - *In the storage compartments such as the glove compartment or the center console*
  - *Next to a communication device such as a mobile phone*
- *When the ignition is switched to ACC or ON, the vehicle lock-out prevention feature prevents you from locking yourself out of the vehicle.*
  All doors and the liftgate will automatically unlock if they are locked using the power door locks with any door or the liftgate open.
  The vehicle lock-out prevention feature does not operate while the ignition is switched off.
  When any door is opened from the outside while the key is inside the vehicle, the closed doors are locked. All the doors are automatically unlocked by closing the open door.
  (With the advanced keyless function)
  The beep sound is heard for about 10 seconds to notify the driver that the key has been left in the vehicle.
  (Without the advanced keyless function)
  The horn sound is heard twice to notify the driver that the key has been left in the vehicle.
- ***(Door unlock (control) system with collision detection)***
  This system automatically unlocks the doors and the liftgate in the event the vehicle is involved in an accident to allow passengers to get out of the vehicle immediately and prevent being trapped inside. While the ignition is switched ON and in the event the vehicle receives an impact strong enough to inflate the air bags, all the doors and the liftgate are automatically unlocked after about 6 seconds have elapsed from the time of the accident.
  The doors and the liftgate may not unlock depending on how an impact is applied, the force of the impact, and other conditions of the accident.
  If door-related systems or the battery is malfunctioning, the doors and the liftgate will not unlock.

DEP DEALER ePROCESS

▼Locking, Unlocking with Auxiliary Key

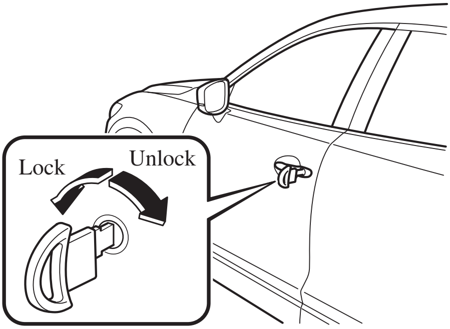
Turn the auxiliary key toward the front to lock, toward the back to unlock.

To lock

All doors and the liftgate lock automatically when the driver's door is locked using the auxiliary key.

To unlock

The driver’s door unlocks when the auxiliary key is turned briefly to the unlock position and then immediately returned to the center position.
All doors and the liftgate unlock when the driver's door is unlocked and the auxiliary key is held in the unlock position for one second or longer.

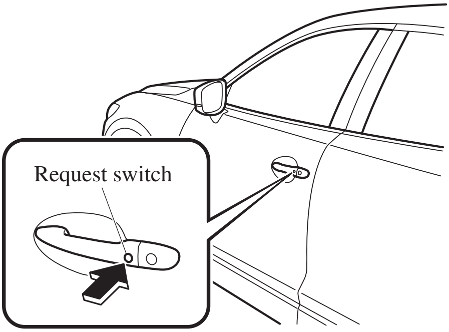


▼Locking, Unlocking with Request Switch (With the advanced keyless function)

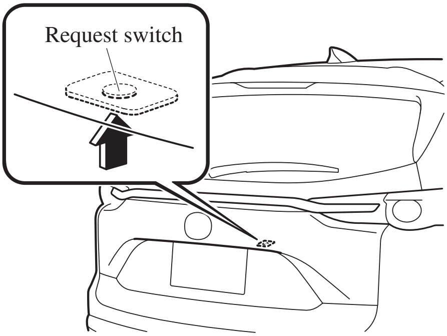
All doors and the liftgate can be locked/ unlocked by pressing the request switch on the front doors while the key is being carried.

The request switch on the liftgate can only be used to lock all doors and the liftgate.

Front doors



Liftgate (Lock only)



To lock

To lock the doors and the liftgate, press the request switch and the hazard warning lights will flash once.
A beep sound will be heard once.

To unlock

Driver's door request switch

To unlock the driver's door, press the request switch. A beep sound will be heard twice and the hazard warning lights will flash twice.
To unlock all doors and the liftgate, press the request switch again within 3 seconds and two more beep sounds will be heard.

Front passenger door request switch

To unlock all doors and the liftgate, press the request switch. A beep sound will be heard twice and the hazard warning lights will flash twice.

NOTE

- *The system can be set to unlock all doors by performing a single operation. Refer to Personalization Features on page 9-11.*
  Use the following procedure to change the setting.
  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*
  3. *Within 30 seconds of opening the driver's door, press and hold the UNLOCK button on the key for 5 seconds or longer (the sound of the doors locking/unlocking can be heard).*
     After this, the system switches the setting of pressing the driver's request switch once or twice to unlock all doors and the liftgate each time the UNLOCK button is pressed (the sound of the doors locking/unlocking can be heard).
  4. *The setting change is completed by doing any one of the following:*
     - *Switching the ignition to ACC or ON.*
     - *Closing the driver's door.*
     - *Opening the liftgate.*
     - *Not operating the key for 10 seconds.*
     - *Pressing any button except the UNLOCK button on the key.*
     - *Pressing a request switch.*
- *Confirm that all doors and the liftgate are securely locked.*
  For the liftgate, move it without pressing the electric liftgate opener to verify that the liftgate has not been left ajar.
- *All doors and the liftgate cannot be locked when any door or the liftgate is open.*

- *It may require a few seconds for the doors to unlock after the request switch is pressed.*
- *A beep sound is heard for confirmation when the doors and the liftgate are locked/unlocked using the request switch. If you prefer, the beep sound can be turned off.*
  The volume of the beep sound can also be changed. Refer to Personalization Features on page 9-11.
  Use the following procedure to change the setting.

  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*
  3. *Within 30 seconds of opening the driver's door, press and hold the LOCK button on the key for 5 seconds or longer.*
     All of the doors and the liftgate lock and the beep sound activates at the currently set volume. The setting changes each time the LOCK button on the key is pressed and the beep sound activates at the set volume. (If the beep sound has been set to not activate, it will not activate.)
  4. *The setting change is completed by doing any one of the following:*
     - *Switching the ignition to ACC or ON.*
     - *Closing the driver's door.*
     - *Opening the liftgate.*
     - *Not operating the key for 10 seconds.*
     - *Pressing any button except the LOCK button on the key.*
     - *Pressing a request switch.*
- ***(With theft-deterrent system)***
  The hazard warning lights flash when the theft-deterrent system is armed or turned off.
  Refer to Theft-Deterrent System on page 3-48.
- *The setting can be changed so that the doors and the liftgate are locked automatically without pressing the request switch.*
  Refer to Personalization Features on page 9-11.
  (Auto-lock function)
  A beep sound is heard when all doors and the liftgate are closed while the advanced key is being carried. All doors and the liftgate are locked automatically after about three seconds when the advanced key is out of the operational range. Also, the hazard warning lights flash once. (Even if the driver is in the operational range, all doors and the liftgate are locked automatically after about 30 seconds.) If you are out of the operational range before the doors and the liftgate are completely closed or another key is left in the vehicle, the auto-lock function will not work. Always make sure that all doors and the liftgate are closed and locked before leaving the vehicle. The auto-lock function does not close the power windows.

- ***Auto re-lock function***
  After unlocking with the request switch, all doors and the liftgate will automatically lock if any of the following operations are not performed within about 60 seconds. If your vehicle has a theft-deterrent system, the hazard warning lights will flash for confirmation.
  The time required for the doors to lock automatically can be changed.
  Refer to Personalization Features on page 9-11.
  - *Opening a door or the liftgate.*
  - *Switching the ignition to any position other than off.*

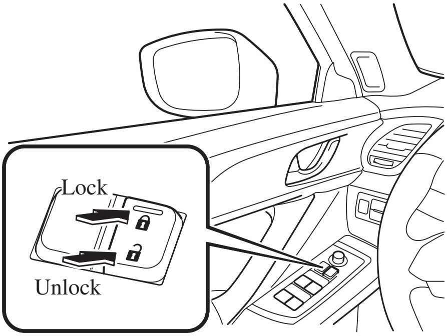
▼Locking, Unlocking with Transmitter

All doors and the liftgate can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-3).

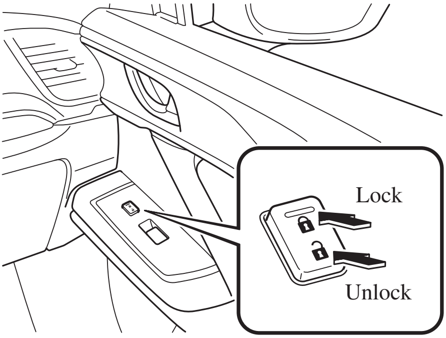
▼Locking, Unlocking with Door-Lock Switch

All doors and the liftgate lock automatically when the lock side is pressed. They unlock when the unlock side is pressed.

Driver's door



Front passenger's door



To lock all the doors and the liftgate from an open front door, press the lock side of the door lock switch and then close the door.

NOTE

When locking the doors this way, be careful not to leave the key inside the vehicle.

▼Auto Lock/Unlock Function

⚠ WARNING

Do not pull the inner handle on a front door:

Pulling the inner handle on a front door while the vehicle is moving is dangerous. Passengers can fall out of the vehicle if the door opens accidentally , which could result in death or serious injury.

- When the vehicle speed exceeds 20 km/h (12 mph), all doors and the liftgate lock automatically.
- When the ignition is switched off, all doors and the liftgate unlock automatically.

These functions can also be disabled so that they do not operate.

Auto lock/unlock function setting change using door-lock switch

The doors and the liftgate can be set to lock or unlock automatically by selecting any one of the functions from the following table and using the driver's door-lock switch on the interior door panel.

NOTE

- *Function number 3 in the following table is the factory setting for your vehicle.*
- *There are only a total of six auto lock/ unlock settings available. Be sure to press the unlock side of the driver's door-lock switch the correct number of times according to the selected function number. If the switch is mistakenly pressed seven times, the procedure will be cancelled. If this occurs, start the procedure from the beginning.*

Function number	Function[*1]
1	The auto door-lock function is disabled.
2	All the doors and the liftgate lock automatically when the vehicle speed is about 20 km/h (12 mph) or more.
3 (Factory Setting)	All the doors and the liftgate lock automatically when the vehicle speed is about 20 km/h (12 mph) or more. All the doors and the liftgate unlock when the ignition is switched from ON to Off.
4	When the ignition is switched ON and the selector lever is shifted from park (P) to any other gear position, all the doors and the liftgate lock automatically.
5	When the ignition is switched ON and the selector lever is shifted from park (P) to any other gear position, all the doors and the liftgate lock automatically. When the selector lever is shifted to park (P) while the ignition is switched ON, all the doors and the liftgate unlock automatically.
6	All the doors and the liftgate lock automatically when the vehicle speed is about 20 km/h (12 mph) or more. When the selector lever is shifted to park (P) while the ignition is switched ON, all the doors and the liftgate unlock automatically.

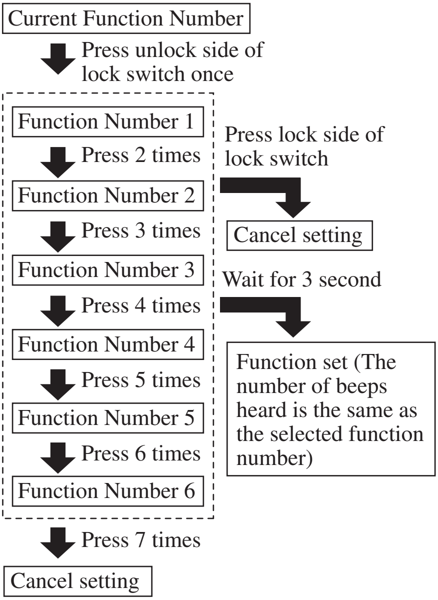
*1 Other settings for the auto door lock function are available at an Authorized Mazda Dealer. For details consult an Authorized Mazda Dealer. Refer to Personalization Features on page 9-11.

Settings can be changed using the following procedure.

1. Safely park the vehicle. All doors must remain closed.
2. Switch the ignition ON.
3. Press and hold the lock side of the driver's door-lock switch within 20 seconds of switching the ignition ON, and make sure a beep sound is heard about eight seconds afterwards.

DEP DEALER ePROCESS

4. Refer to the auto lock/unlock function setting table, determine the function number for the desired setting. Press the unlock side of the driver's door-lock switch the same number of times as the selected function number (Ex. If you select function 2, press the unlock side of the switch only 2 times).
5. Three seconds after the function setting has been changed, a beep sound will beep in the amount of the selected function number. (Ex. Function number 3 = 3 beep sounds)


Current Function Number
Press unlock side of lock switch once
Function Number 1
Press 2 times
Function Number 2
Press 3 times
Function Number 3
Press 4 times
Function Number 4
Press 5 times
Function Number 5
Press 6 times
Function Number 6
Press 7 times
Cancel setting
Press lock side of lock switch
Cancel setting
Wait for 3 second
Function set (The number of beeps heard is the same as the selected function number)

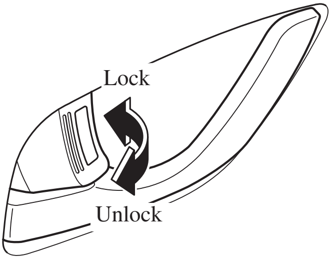
NOTE

- *The doors cannot be locked or unlocked while the setting function is being performed.*
- *The procedure can be cancelled by pressing the lock side of the driver's door-lock switch.*

▼Locking, Unlocking with Door-Lock Knob

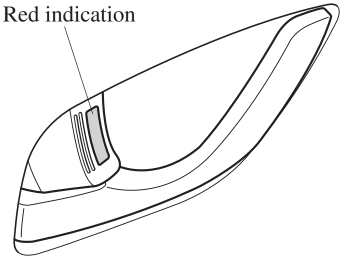
Operation from inside

To lock any door from the inside, press the door-lock knob.
To unlock, pull it outward.
This does not operate the other door locks.


Lock
Unlock

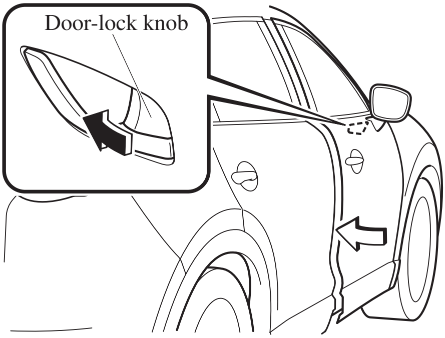
NOTE

The red indication can be seen when the door-lock knob is unlocked.


Red indication

Operation from outside

To lock any door with the door-lock knob from the outside, press the door-lock knob to the lock position and close the door (holding the door handle in the open position is not required).
This does not operate the other door locks.



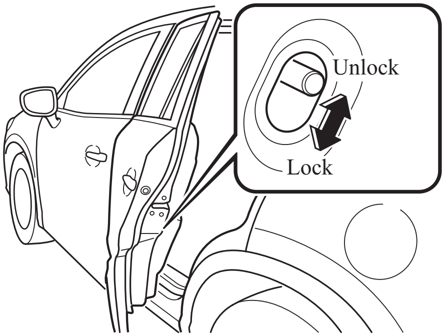
NOTE

When locking the door this way, be careful not to leave the key inside the vehicle.

▼Rear Door Child Safety Locks

These locks are intended to help prevent children from accidentally opening the rear doors. Use them on both rear doors whenever a child rides in the rear seat of the vehicle.

If you slide the child safety lock to the lock position before closing that door, the door cannot be opened from the inside. The door can only be opened by pulling the outside handle.



Liftgate

WARNING

Never allow a person to ride in the luggage compartment:

Allowing a person to ride in the luggage compartment is dangerous. The person in the luggage compartment could be seriously injured or killed during sudden braking or a collision.

Do not drive with the liftgate open:

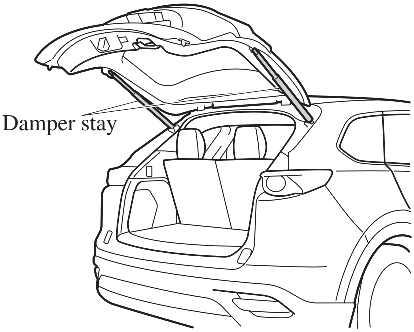
Exhaust gas in the cabin of a vehicle is dangerous. An open liftgate in a moving vehicle will cause exhaust gas to be drawn into the cabin. This gas contains CO (carbon monoxide), which is colorless, odorless, and highly poisonous, and it can cause loss of consciousness and death. Moreover, an open liftgate could cause occupants to fall out in an accident.

Do not stack or leave loaded luggage unsecured in the luggage compartment:

Otherwise, the luggage may move or collapse, resulting in injury or an accident. In addition, do not load luggage higher than the seatbacks. It may affect the side or rear field of view.

CAUTION

- *Before opening the liftgate, remove any snow and ice accumulation on it. Otherwise, the liftgate could close under the weight of the snow and ice resulting in injury.*
- *Be careful when opening/closing the liftgate during strong winds. If a strong gust blows against the liftgate, it could close suddenly resulting in injury.*
- *Fully open the liftgate and make sure that it stays open. If the liftgate is only opened partially, it could slam shut by vibration or wind gusts resulting in injury.*
- *When loading or unloading luggage in the luggage compartment, turn off the engine. Otherwise, you could get burned by the heat of the exhaust gas.*
- *Be careful not to apply excessive force to the damper stay on the liftgate such as by putting your hand on the stay. Otherwise, the damper stay may bend and affect the liftgate operation.*

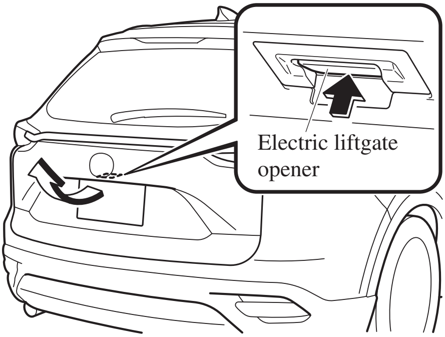


- *Do not modify or replace the liftgate damper stay. Consult an Authorized Mazda Dealer if a liftgate damper stay is deformed or damaged for reasons such as a collision or if there is some other problem.*

▼Opening and Closing the Liftgate

Opening the liftgate with Electric liftgate opener

Unlock the doors and liftgate, then press the electric liftgate opener on the liftgate and raise the liftgate when the latch releases.



NOTE

(With the advanced keyless function)

- *A locked liftgate can also be opened while the key is being carried.*
- *When opening the liftgate with the doors and the liftgate locked, it may require a few seconds for the liftgate latch to release after the electric liftgate opener is pressed.*
- *The liftgate can be closed when the doors are locked with the key left in the vehicle. However, to prevent locking the key in the vehicle, the liftgate can be opened by pressing the electric liftgate opener. If the liftgate cannot be opened despite doing this procedure, first push the liftgate completely closed, then press the electric liftgate opener to fully open the liftgate .*

- *When the liftgate latch is released by pressing the electric liftgate opener, the liftgate raises slightly. If the liftgate is not operated for a certain period of time, the liftgate cannot be raised.*

  To open

  Press the electric liftgate opener again.

  To close

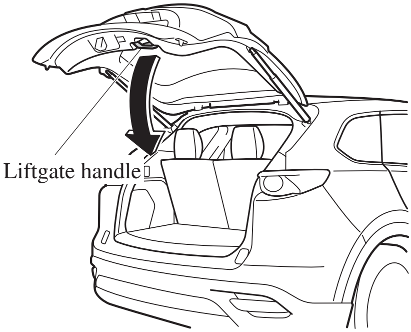
  To close the liftgate from its slightly raised position, open it first by pressing the electric liftgate opener, then close it after waiting at least 1 second.

- *If the liftgate is not fully closed, the driver is notified by a warning indicated in the instrument cluster.*

- *If the vehicle battery is dead or there is a malfunction in the electrical system and the liftgate cannot be unlocked, the liftgate can be opened by performing the emergency procedure.*
  Refer to When Liftgate Cannot be Opened on page 7-50.

Closing the liftgate

Lower the liftgate slowly using the liftgate handle, then push the liftgate closed using both hands.
Do not slam it. Pull up on the liftgate to make sure it is secure.



▼Power Liftgate*

The power liftgate opens/closes electrically by operating the switches in the vehicle or the buttons on the keyless entry system transmitter.
Refer to Transmitter on page 3-4.

⚠ WARNING

Be sure to watch the power liftgate as it opens or closes, and make sure that it closes completely:

Opening or closing the power liftgate while not watching it move is dangerous. Because of unseen obstacles and the jam-safe feature, a liftgate may not close completely and, if left unnoticed, could result in serious injury or death if an occupant were to fall out of the vehicle.
Always be sure that the area around the liftgate is clear before activating it.

Always confirm the safety of the area around the power liftgate before operating it electrically.

Not checking the area around the liftgate for people before operating it using the power liftgate switch or the button on the keyless entry system is dangerous. A person could become caught between the liftgate and an obstruction while it is opening electrically or between the liftgate and vehicle while it is closing electrically, resulting in an accident and serious injury.

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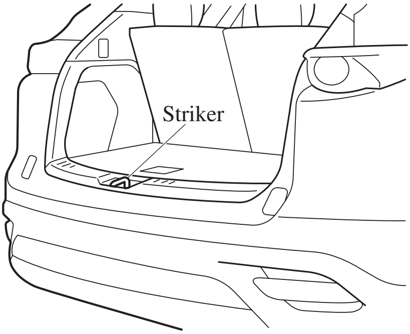
Never allow children to operate the power liftgate system:

Allowing children to operate the power liftgate switch and the keyless entry system is dangerous. Children are not aware of the dangers of people getting fingers and hands caught in a moving liftgate. If someone's neck, head or hands get caught in a closing door, it could result in death or serious injury.

⚠ CAUTION

- *When closing the power liftgate, make sure there are no foreign objects around the striker. If foreign objects are obstructing the striker, the liftgate may not close properly.*



- *Do not install accessories to the power liftgate other than specified accessories. Otherwise, it cannot be opened/closed automatically and could result in a malfunction.*
- *Be careful when switching the power liftgate from electrical to manual operation. The power liftgate may open/close unexpectedly depending on its position which could result in injury.*

NOTE

- *Do not apply unnecessary force to the power liftgate when it is opening/closing electrically. Unnecessary force on the liftgate may cause it to reverse direction of movement automatically. Also, it could result in a malfunction.*
- *The power liftgate may not open/close electrically if the vehicle is parked on an incline, or there is strong wind, or the liftgate is laden with snow.*
- *If a power liftgate system fuse has blown, the liftgate cannot be opened using the power liftgate switch or the electric liftgate opener. Use the emergency lever to open the liftgate.*
- *Fully close the power liftgate before disconnecting the vehicle battery. If the battery is disconnected with the liftgate open, it cannot be opened or closed automatically after the battery is reconnected. If this happens, fully close the liftgate manually to restore the auto full open/close function.*
- *If the system detects weight such as that caused by a snow-laden liftgate when it is opened electrically, after the beep activates three times, the liftgate stops after reversing.*
- *If the power liftgate is snow-laden, remove the snow before operating the liftgate.*

Opening/Closing the power liftgate

If the vehicle has satisfied all the following operation conditions, the power liftgate can be opened using the power function.

Operation conditions

(1) All doors and the liftgate are unlocked.
(2) The shift lever is in park (P) when the ignition is switched ON.

NOTE

- *If condition (2) is not satisfied while the power liftgate is **opening** electrically, the beep sound will be heard and the liftgate will move in the reverse direction automatically.*
- *If condition (2) is not satisfied while the power liftgate is **closing** electrically, the beep sound will be heard and the liftgate continues closing.*
- *When condition (2) is satisfied, you can resume power liftgate open/close operation with the switches.*

Operation using the transmitter

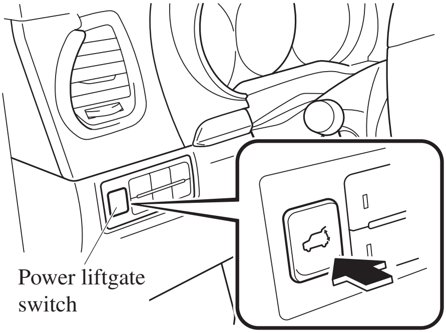
Press the power liftgate button for one second or more. The hazard warning lights flash twice and the liftgate opens/closes after the beep sounds.
Refer to Transmitter on page 3-4.

NOTE

- *When the ignition is switched ON, the transmitter does not operate.*
- *When opening the liftgate by pressing the power liftgate button on the transmitter, the liftgate can be opened even when it is locked.*

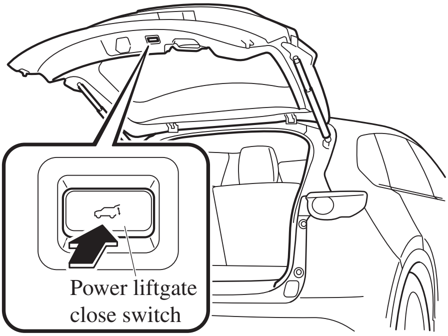
Operation from the driver's seat (To open/close)

Press the power liftgate switch for about one second or more while the liftgate is in the fully closed/open position. The hazard warning lights flash twice and the liftgate opens/closes fully after the beep sound is heard.



Operation from outside (To close)

Press the power liftgate close switch while the liftgate is fully opened. The hazard warning lights flash twice and the liftgate closes automatically after the beep sound is heard.



NOTE

If the power liftgate switch/power liftgate close switch/power liftgate button on the transmitter is pressed or the electric liftgate opener is operated while the liftgate is opening/closing electrically, the beep sound is heard and the liftgate stops. Then, it reverses when any of the switches (buttons) are pressed again.

Changing the power liftgate fully open position

The power liftgate fully-open position can be changed according to the height of a garage.

When changing the position

1. Stop the liftgate at the desired position.
2. Press the power liftgate close switch for about three seconds.
   A beep sound is activated two times to indicate that the position change has been completed.

NOTE

Set the desired fully-open position of the liftgate at the position where it is open more than halfway. The position where it is less than halfway open cannot be set.

To reset

1. Open the liftgate.
2. Press the power liftgate close switch for about seven seconds.
   A beep sound is activated three times to indicated that the reset has been completed.

NOTE

After about 3 seconds have elapsed since the switch was pressed, a beep sound is activated 2 times to indicate that the liftgate fully-open position has changed. Continuously press the switch for about 7 seconds to complete the reset.

Jam-safe equipment

While the power liftgate is opening/closing electrically and the system detects a person or an object in the liftgate's path, the liftgate will move in the reverse direction automatically and stops.

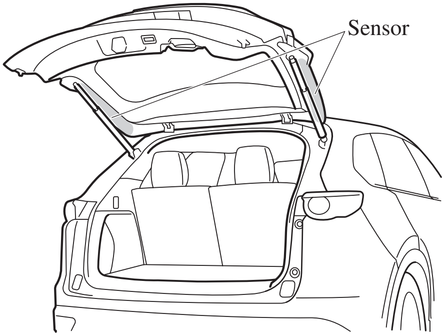
⚠ WARNING

Always check the area around the power liftgate before opening/closing it:

> *Not checking for occupants and objects around the power liftgate before opening/closing it is dangerous. The jam-safe equipment is designed to prevent jamming in the event an obstruction is in the liftgate's path. The system may not detect certain objects obstructing the liftgate depending on the way they are positioned and their shape. However, if the jam-safe function detects an obstruction and moves the liftgate in the reverse direction, an occupant in the liftgate's path could be seriously injured.*

CAUTION

Sensors are installed on both ends of the power liftgate. Be careful not to allow the sensors to be scratched or damaged by sharp objects, otherwise the liftgate may no longer open/close automatically. In addition, if the sensor is damaged while the liftgate is closing automatically, the system will stop.



NOTE

The jam-safe equipment does not activate during easy closure operation when the power liftgate is between the near-shut position and fully closed position.

When the power liftgate is moving in the open/close direction and an obstruction is detected, the beep sound will be heard and the liftgate moves in the reverse direction and stops.

Liftgate easy closure

The Easy Closure system automatically closes the liftgate completely from the near-shut position.
This system also operates when the liftgate is closed manually.

WARNING

When closing a liftgate, always keep hands and fingers away from the liftgate:

Placing hands or fingers around a liftgate is dangerous because the liftgate closes automatically from the near-shut position, which could cause hands and fingers to be pinched and injured.

NOTE

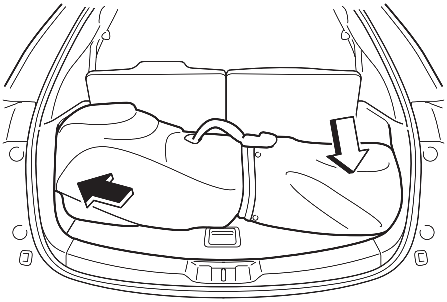
- *If the electric liftgate opener is pressed while the easy closure function is operating, the liftgate can be opened.*
- *If the liftgate is opened/closed repeatedly in a short period of time, the easy closure function may not operate. Wait for about 2 seconds and then try again.*

▼Luggage Compartment

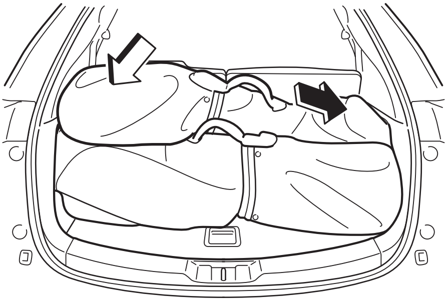
Loading golf bags

Up to two golf bags can be carried in the luggage compartment.

1. Place the bottom of the first golf bag into the depression on the left side of the luggage compartment trim. Set the top of the golf bag into the right side of the luggage compartment.



2. Place the bottom of the second golf bag into the depression on the right side of the luggage compartment trim. Set the top of the golf bag to the left and on top of the first golf bag.



NOTE

Some golf bags cannot fit depending on their size.

Fuel and Engine Exhaust Precautions

▼Fuel Requirements

Vehicles with catalytic converters or oxygen sensors must use ONLY UNLEADED FUEL, which will reduce exhaust emissions and keep spark plug fouling to a minimum.

This vehicle will perform best with fuel listed in the table.

Fuel	Octane Rating* (Anti-knock index)
Regular unleaded fuel	87 [(R+M)/2 method] or above (91 RON or above)

* U.S. federal law requires that octane ratings be posted on gasoline station pumps.

Fuel with a rating lower than 87 octane (91 RON) will negatively affect the emission control system performance and could also cause engine knocking and serious engine damage.

CAUTION

- *USE ONLY UNLEADED FUEL.*
  Leaded fuel is harmful to the catalytic converter and oxygen sensors and will lead to deterioration of the emission control system and or failures.
- *This vehicle can only use oxygenated fuels containing no more than 10 % ethanol by volume. Damage to the vehicle may occur when ethanol exceeds this recommendation, or if the gasoline contains any methanol. Stop using gasohol of any kind if your vehicle engine is performing poorly.*
- *Never add fuel system additives, otherwise the emission control system could be damaged. Consult an Authorized Mazda Dealer for details.*

Gasoline blended with oxygenates such as alcohol or ether compounds are generally referred to as oxygenated fuels. The common gasoline blend that can be used with your vehicle is ethanol blended at no more than 10 %. Gasoline containing alcohol, such as ethanol or methanol, may be marketed under the name "Gasohol".

Vehicle damage and drivability problems resulting from the use of the following may not be covered by the warranty.

- Gasohol containing more than 10 % ethanol.
- Gasoline or gasohol containing methanol.
- Leaded fuel or leaded gasohol.

▼Emission Control System

This vehicle is equipped with an emission control system (the catalytic converter is part of this system) that enables the vehicle to comply with existing exhaust emissions requirements.

⚠ WARNING

Never park over or near anything flammable:

Parking over or near anything flammable, such as dry grass, is dangerous. Even with the engine turned off, the exhaust system remains very hot after normal use and could ignite anything flammable. A resulting fire could cause serious injury or death.

⚠ CAUTION

Ignoring the following precautions could cause lead to accumulate on the catalyst inside the converter or cause the converter to get very hot. Either condition will damage the converter and cause poor performance.

- *USE ONLY UNLEADED FUEL.*
- *Do not drive your Mazda with any sign of engine malfunction.*
- *Do not coast with the ignition switched off.*
- *Do not descend steep grades in gear with the ignition switched off.*
- *Do not operate the engine at high idle for more than 2 minutes.*
- *Do not tamper with the emission control system. All inspections and adjustments must be made by a qualified technician.*
- *Do not push-start or pull-start your vehicle.*

NOTE

- *Under U.S. federal law, any modification to the original-equipment emission control system before the first sale and registration of a vehicle is subject to penalties. In some states, such modification made on a used vehicle is also subject to penalties.*
- *While the engine is off, the sound of a valve opening and closing can be heard at the rear of the vehicle, however this does not indicate an abnormality. The vehicle has a self-checking device and it operates while the engine is off.*

▼Engine Exhaust (Carbon monoxide)

⚠ WARNING

Do not drive your vehicle if you smell exhaust gas inside the vehicle:

Engine exhaust gas is dangerous. This gas contains carbon monoxide (CO), which is colorless, odorless, and poisonous. When inhaled, it can cause loss of consciousness and death. If you smell exhaust gas inside the vehicle, keep all windows fully open and contact an Authorized Mazda Dealer immediately.

Do not run the engine when inside an enclosed area:

Running the engine inside an enclosed area, such as a garage, is dangerous. Exhaust gas, which contains poisonous carbon monoxide, could easily enter the cabin. Loss of consciousness or even death could occur.

Open the windows or adjust the heating or cooling system to draw fresh air when idling the engine:

Exhaust gas is dangerous. When the vehicle is stopped with the windows closed and the engine running for a long time even in an open area, exhaust gas, which contains poisonous carbon monoxide, could enter the cabin. Loss of consciousness or even death could occur.

Clear snow from underneath and around your vehicle, particularly the tail pipe, before starting the engine:

Running the engine when a vehicle is stopped in deep snow is dangerous. The exhaust pipe could be blocked by the snow, allowing exhaust gas to enter the cabin. Because exhaust gas contains poisonous carbon monoxide, it could cause loss of consciousness or even death to occupants in the cabin.

Fuel-Filler Lid and Cap

WARNING

When removing the fuel-filler cap, loosen the cap slightly and wait for any hissing to stop, then remove it:

Fuel spray is dangerous. Fuel can burn skin and eyes and cause illness if ingested. Fuel spray is released when there is pressure in the fuel tank and the fuel-filler cap is removed too quickly.

Before refueling, stop the engine, and always keep sparks and flames away from the filler neck:

Fuel vapor is dangerous. It could be ignited by sparks or flames causing serious burns and injuries.
Additionally, use of the incorrect fuel-filler cap or not using a fuel-filler cap may result in a fuel leak, which could result in serious burns or death in an accident.

Do not continue refueling after the fuel pump nozzle shuts off automatically:

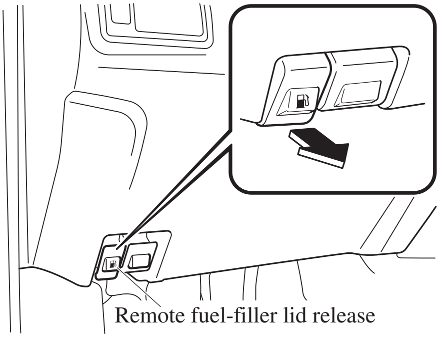
Continuing to add fuel after the fuel pump nozzle has shut off automatically is dangerous because overfilling the fuel tank may cause fuel overflow or leakage. Fuel overflow and leakage could damage the vehicle and if the fuel ignites it could cause a fire and explosion resulting in serious injury or death.

CAUTION

(U.S.A. and Canada)
Always use only a genuine Mazda fuel-filler cap or an approved equivalent, available at an Authorized Mazda Dealer. The wrong cap can result in a serious malfunction of the fuel and emission control systems. It may also cause the check engine light in the instrument cluster to illuminate.

▼Fuel-Filler Lid

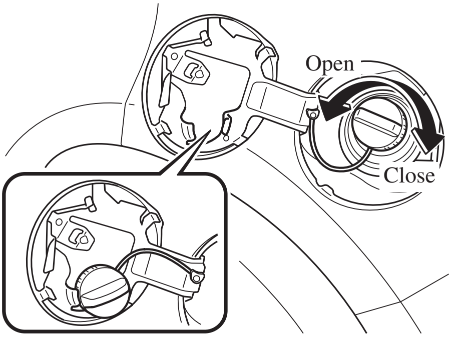
To open, pull the remote fuel-filler lid release.
To close, press the fuel-filler lid until it locks securely.



▼Fuel-Filler Cap

To remove the fuel-filler cap, turn it counterclockwise.
Attach the removed cap to the inner side of the fuel lid.

To close the fuel-filler cap, turn it clockwise until a click is heard.



CAUTION

(U.S.A. and Canada)
If the check fuel cap warning light illuminates, the fuel-filler cap may not be properly installed. If the warning light illuminates, park your vehicle safely off the right-of-way, remove the fuel-filler cap and reinstall it correctly. After the cap has been correctly installed, the fuel cap warning light may continue to illuminate until a number of driving cycles have been completed. A drive cycle consists of starting the engine (after four or more hours with the engine off) and driving the vehicle on city and highway roads. Continuing to drive with the check fuel cap warning light illuminated could cause the check engine light to illuminate as well.

Steering Wheel

⚠ WARNING

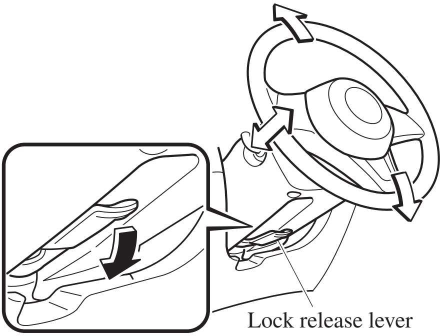
Never adjust the steering wheel while the vehicle is moving:

Adjusting the steering wheel while the vehicle is moving is dangerous. Moving it can very easily cause the driver to abruptly turn to the left or right. This can lead to loss of control or an accident.

▼Steering Wheel Adjustment

To change the angle or length of the steering wheel:

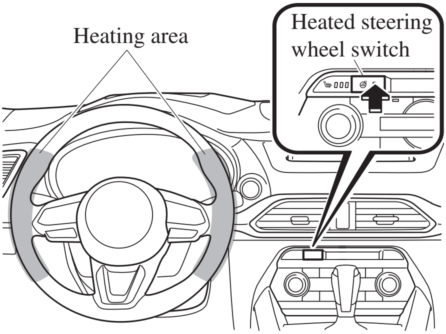
1. Stop the vehicle, and then pull down the lock release lever under the steering column.



2. Tilt the steering wheel and/or adjust the steering column length to the desired positions, then push the lever up to lock the column.
3. Attempt to push the steering wheel up and down to make sure it's locked before driving.

▼Heated Steering Wheel*

The grips on the left and right of the steering wheel can be warmed up.



The ignition must be switched ON.

Press the switch to turn on the heated steering wheel. The heated steering wheel operates for about 30 minutes and then turns off automatically.
The indicator light illuminates when the heater is operating.

To turn off the heated steering wheel before the 30 minutes has elapsed, press the switch again.

⚠ CAUTION

The following types of persons should be careful not to touch the steering wheel. Otherwise, it could cause a low-temperature burn.

- *Infants, small children, elderly people, and physically challenged people*
- *People with delicate skin*
- *People who are excessively fatigued*
- *People who are intoxicated*
- *People who have taken sleep-inducing medicine such as sleeping pills or cold medicine*

*Some models.

Mirrors

Before driving, adjust the inside and outside mirrors.

▼Outside Mirrors

⚠ WARNING

Be sure to look over your shoulder before changing lanes:

Changing lanes without taking into account the actual distance of the vehicle in the convex mirror is dangerous. You could have a serious accident. What you see in the convex mirror is closer than it appears.

Mirror type

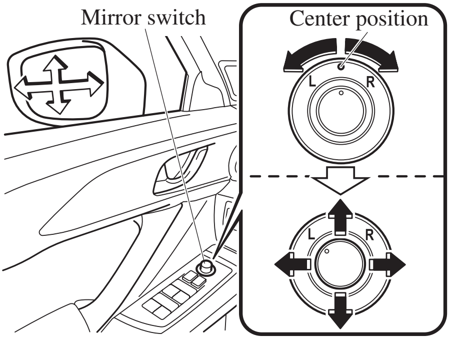
Flat type (driver's side)
Flat surface mirror.
Convex type (front passenger side)
The mirror has single curvature on its surface.

Power mirror adjustment

The ignition must be switched to ACC or ON position.

To adjust:

1. Rotate the mirror switch to the left **L** or right **R** to choose the left or right side mirror.
2. Press the mirror switch in the appropriate direction.



After adjusting the mirror, lock the control by rotating the switch in the center position.

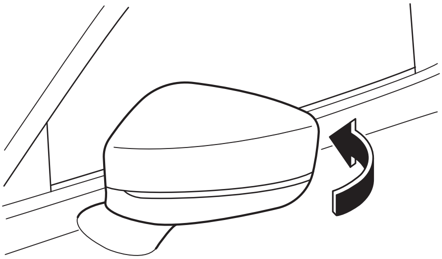
Folding mirror

⚠ WARNING

Always return the outside mirrors to the driving position before you start driving:

Driving with the outside mirrors folded in is dangerous. Your rear view will be restricted, and you could have an accident.

Manually fold the outside mirror rearward until it is flush with the vehicle.



▼Rearview Mirror

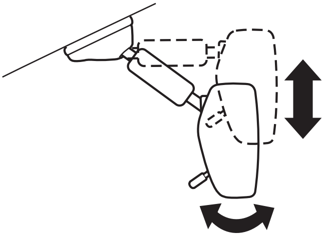
⚠ WARNING

Do not stack cargo or objects higher than the seatbacks:

Cargo stacked higher than the seatbacks is dangerous. It can block your view in the rearview mirror, which might cause you to hit another car when changing lanes.

Rearview mirror adjustment

Before driving, adjust the rearview mirror to center on the scene through the rear window.



NOTE

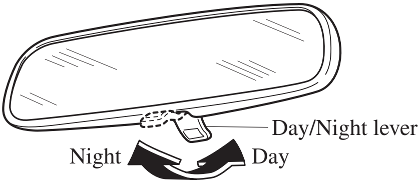
For the manual day/night mirror, perform the adjustment with the day/night lever in the day position.

DEP DEALER ePROCESS

Reducing glare from headlights

Manual day/night mirror

Push the day/night lever forward for day driving. Pull it back to reduce glare of headlights from vehicles at the rear.

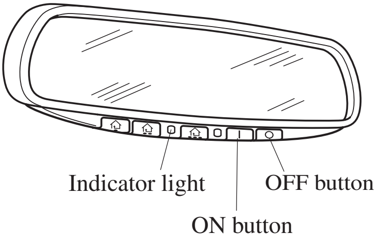

Day/Night lever
Night
Day

Auto-dimming mirror

The auto-dimming mirror automatically reduces the glare of headlights from vehicles at the rear when the ignition is switched ON.

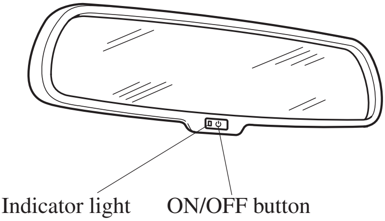
(With Homelink wireless control system)

Press the OFF button (○) to cancel the automatic dimming function. The indicator light will turn off.
To reactivate the automatic dimming function, press the ON button (I). The indicator light will illuminate.


Indicator light
OFF button
ON button

(Without Homelink wireless control system)

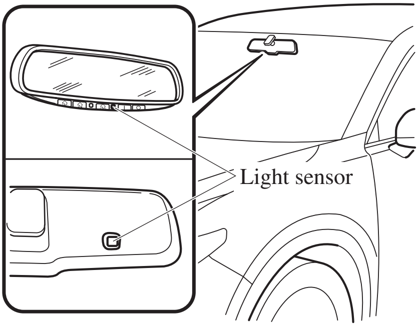
Press the ON/OFF button ⏻ to cancel the auto-dimming function. The indicator light will turn off.
To reactivate the auto-dimming function, press the ON/OFF button ⏻. The indicator light will illuminate.


Indicator light
ON/OFF button

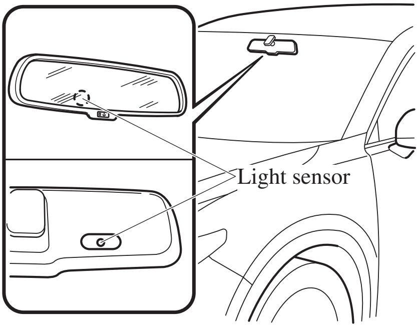
NOTE

- *Do not use glass cleaner or suspend objects on or around the light sensor. Otherwise, light sensor sensitivity will be affected and may not operate normally.*

  (With Homelink wireless control system)



(Without Homelink wireless control system)



- ***(With Homelink wireless control system)***

  For information regarding the 3 buttons (⌂, ⌂, ⌂) on the auto-dimming mirror.

  Refer to HomeLink Wireless Control System on page 4-62.
- *The auto-dimming function is canceled when the ignition is switched ON and the shift lever is in reverse (R).*

Power Windows

The ignition must be switched ON for the power windows to operate.

⚠ WARNING

Make sure the opening is clear before closing a window:

Closing a power window is dangerous. A person's hands, head, or even neck could be caught by the window and result in serious injury or even death. This warning applies especially to children.

Never allow children to play with power window switches:

Power window switches that are not locked with the power window lock switch would allow children to operate power windows unintentionally, which could result in serious injury if a child's hands, head or neck becomes caught by the window.

⚠ CAUTION

To prevent burning out the fuse and damaging the power window system, do not open or close more than three windows at once.

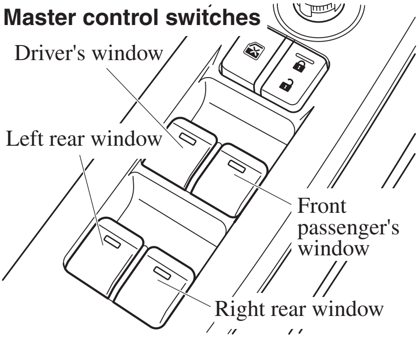
NOTE

A power window may no longer open/close if you continue to press the switch after fully opening/closing the power window. If the power window does not open/close, wait a moment and then operate the switch again.

▼Operating the Power Windows (Type A)

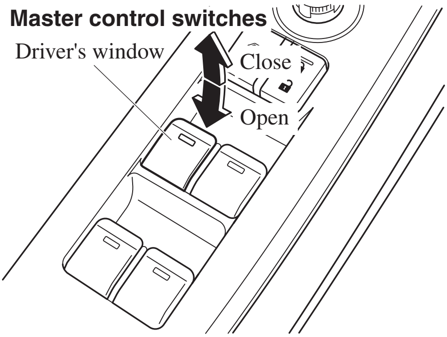
NOTE

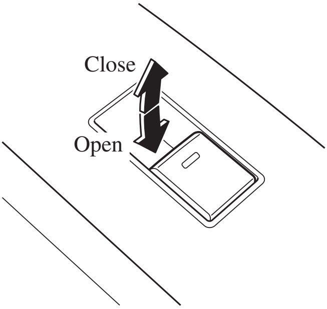
- *Each passenger window can be operated with each door switch when the power window lock switch on the driver's door is in the unlocked position (page 3-43).*
- *Each passenger window can also be operated using the master control switches on the driver's door.*



Normal opening/closing

To open the window to the desired position, lightly hold down the switch.
To close the window to the desired position, lightly pull up the switch.





Auto-opening/closing

To fully open the window automatically, press the switch completely down.
To fully close the window automatically, pull the switch completely up.

To stop the window partway, pull or press the switch in the opposite direction and then release it.

Power window system initialization procedure

If the battery was disconnected during vehicle maintenance, or for other reasons (such as a switch continues to be operated after the window is fully open/closed), the window will not fully open and close automatically.
Resetting of the automatic function can be performed using the master control switches or each passenger door switch. The power window auto function reset procedure can be done on all door switches. The power window auto function will only resume on the power window that has been reset.

1. Switch the ignition ON.
2. Make sure that the power window lock switch located on the driver's door is not depressed.
3. Press the switch and fully open the window.
4. Pull up the switch to fully close the window and continue holding the switch for about 2 seconds after the window fully closed.
5. Repeat Steps 3-4 for the front passenger power window while seated in the front passenger seat.
6. Repeat Steps 3-4 for both the left and right rear power windows while seated in the rear seat.
7. Make sure that the power windows operate correctly using the door switches.

After the system has been re-initialized, each passenger window can be fully opened or closed automatically using the master control switches.

Jam-safe window

If a person's hands, head or an object blocks the window during the manual closing operation or the auto-closing operation, the window will stop and open halfway.

⚠ WARNING

Make sure nothing blocks the window just before it reaches the fully closed position or while fully holding up the power window switch:

> *Blocking the power window just before it reaches the fully closed position or while fully holding up the power window switch is dangerous.*
> *In this case, the jam-safe function cannot prevent the window from closing all the way. If fingers are caught, serious injuries could occur.*

NOTE

- *Depending on driving conditions, a closing power window could stop and start opening when the window feels a shock that is similar to something blocking it.*
  In the event the jam-safe function activates and the power window cannot be closed automatically, pull and hold the switch fully and the window will close.
- *The jam-safe window function does not operate until the system has been reset.*

Engine-off power window operation

The power window can be operated for about 40 seconds after the ignition is switched from ON to off with all doors closed. If any door is opened, the power window will stop operating.

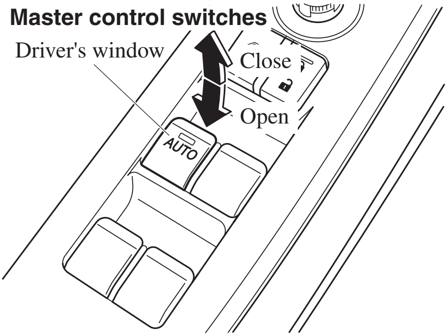
NOTE

For engine-off operation of the power window, the switch must be held up firmly throughout window closure because the auto-closing function will be inoperable.

▼Operating the Driver's Side Power Window (Type B)

Normal opening/closing

To open the window to the desired position, lightly hold down the switch.
To close the window to the desired position, lightly pull up the switch.



Auto-opening/closing

To fully open the window automatically, press the switch completely down, then release. The window will fully open automatically.
To fully close the window automatically, pull the switch completely up, then release. The window will fully close automatically.

To stop the window partway, pull or press the switch in the opposite direction and then release it.

Power window system initialization procedure

If the battery was disconnected during vehicle maintenance, or for other reasons (such as a switch continues to be operated after the window is fully open/closed), the window will not fully open and close automatically.
The power window auto function will only resume on a power window that has been reset.

1. Switch the ignition ON.
2. Make sure that the power window lock switch located on the driver's door is not depressed.
3. Press the switch and fully open the window.
4. Pull up the switch to fully close the window and continue holding the switch for about 2 seconds after the window fully closed.

Jam-safe window

If a person's hands, head or an object blocks the window during the auto-closing operation, the window will stop and open halfway.

⚠ WARNING

Make sure nothing blocks the window just before it reaches the fully closed position or while holding up the power window switch:

> *Blocking the power window just before it reaches the fully closed position or while holding up the power window switch is dangerous.*
> *In this case, the jam-safe function cannot prevent the window from closing all the way. If fingers are caught, serious injuries could occur.*

NOTE

- *Depending on driving conditions, a closing power window could stop and start opening when the window feels a shock that is similar to something blocking it.*
  In the event the jam-safe function activates and the power window cannot be closed automatically, pull and hold the switch and the window will close.
- *The jam-safe window function does not operate until the system has been reset.*

Engine-off power window operation

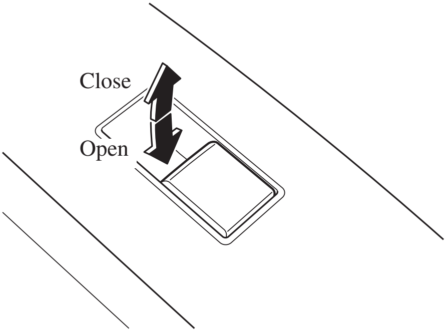
The power window can be operated for about 40 seconds after the ignition is switched from ON to off with all doors closed. If any door is opened, the power window will stop operating.

NOTE

For engine-off operation of the power window, the switch must be held up firmly throughout window closure because the auto-closing function will be inoperable.

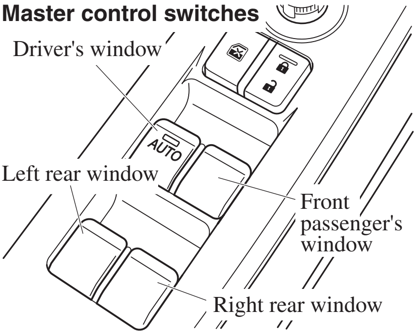
▼Operating the Passenger Power Windows (Type B)

To open the window to the desired position, hold down the switch.
To close the window to the desired position, pull up the switch.



NOTE

- *The power windows may be operated when the power window lock switch on the driver's door is in the unlocked position.*
- *The passenger windows may be opened or closed using the master control switches on the driver's door.*



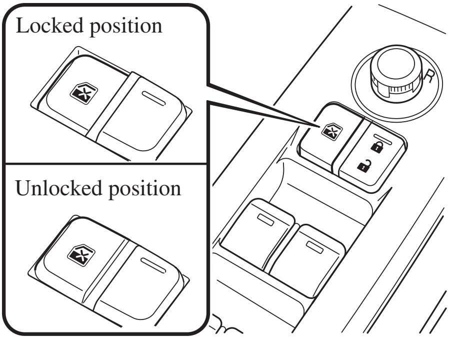
DEP DEALER ePROCESS

▼Power Window Lock Switch

This feature prevents all power windows from operating, except the driver's power window. Keep this switch in the locked position while children are in the vehicle.

Locked position (button depressed):
Only the driver's power window can be operated.

Unlocked position (button not depressed):
All power windows on each door can be operated.

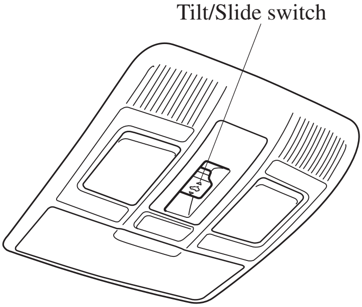


NOTE

(Type A)
When the power window lock switch is in the locked position, the light on each power window switch, except for the driver's power window switch, turns off. The light may be difficult to see depending on the surrounding brightness.

Moonroof *

The moonroof can be opened or closed electrically only when the ignition is switched ON.



⚠ WARNING

Do not let passengers stand up or extend part of the body through the open moonroof while the vehicle is moving:

Extending the head, arms, or other parts of the body through the moonroof is dangerous. The head or arms could hit something while the vehicle is moving. This could cause serious injury or death.

Make sure the opening is clear before closing the moonroof:

A closing moonroof is dangerous. The hands, head, or even neck of a person, especially a child, could be caught in it as it closes, causing serious injury or even death.

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*Some models.

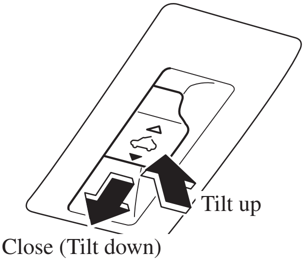
NOTE

Before washing your Mazda, make sure the moonroof is completely closed so that water does not get inside the cabin area. After washing your Mazda or after it rains, wipe the water off the moonroof before operating it to avoid water penetration which could cause rust and water damage to your headliner.

▼Tilt Operation

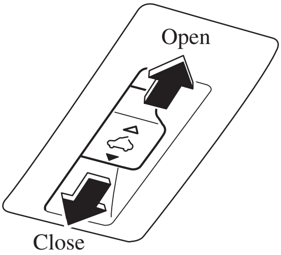
The rear of the moonroof can be tilted open to provide more ventilation.

To fully tilt automatically, momentarily press the tilt/slide switch.
To fully close automatically, momentarily press the tilt/slide switch in the forward direction.
To stop tilting partway, press the tilt/slide switch.



▼Slide Operation

To fully open automatically, momentarily press the tilt/slide switch in the backward direction.
To fully close automatically, momentarily press the tilt/slide switch in the forward direction.
To stop sliding partway, press the tilt/slide switch.



▼Power Moonroof Reset Procedure

If the battery is disconnected, the moonroof will not operate. The moonroof will not operate correctly until it is reset. Carry out the following procedure to reset the moonroof and resume operation:

1. Switch the ignition ON.
2. Press the tilt switch, to partially tilt open the rear of the moonroof.
3. Repeat Step 2. The rear of the moonroof tilts open to the fully open position, then closes a little.

NOTE

If the reset procedure is performed while the moonroof is in the slide position (partially open) it will close before the rear tilt opens.

▼Jam-safe Moonroof

If a person's hands, head or an object blocks the moonroof while it is closing, the moonroof will stop and move in the open direction.

⚠ WARNING

Make sure nothing blocks the moonroof just before it reaches the fully closed position:

Blocking the moonroof just before it reaches the closed position is dangerous.
In this case, the jam-safe function cannot prevent the moonroof from closing. If fingers are caught, serious injuries could occur.

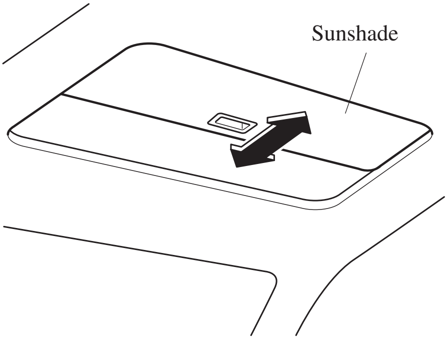
NOTE

- *Depending on driving conditions, a closing moonroof could stop and start opening when the moonroof feels a shock that is similar to something blocking it.*
- *The moonroof's jam-safe function does not function while the moonroof is initializing.*

▼Sunshade

The sunshade can be opened and closed by hand.

The sunshade opens automatically when the moonroof is opened, but must be closed by hand.



⚠ CAUTION

- *The sunshade does not tilt. To avoid damaging the sunshade, do not push up on it.*
- *Do not close the sunshade while the moonroof is opening. Trying to force the sunshade closed could damage it.*

Modification and Add-On Equipment

Mazda cannot guarantee the immobilizer and the theft-deterrent systems' operation if the system has been modified or if any add-on equipment has been installed.

⚠ CAUTION

To avoid damage to the vehicle, do not modify the system or install any add-on equipment to the immobilizer and the theft-deterrent systems or the vehicle.

Immobilizer System

The immobilizer system allows the engine to start only with a key the system recognizes.

If someone attempts to start the engine with an unrecognized key, the engine will not start, thereby helping to prevent vehicle theft.
If you have a problem with the immobilizer system or the key, consult an Authorized Mazda Dealer.

⚠ CAUTION

- *Radio equipment like this is governed by laws in the United States.*
  Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- *To avoid damage to the key, do not:*
  - *Drop the key.*
  - *Get the key wet.*
  - *Expose the key to any kind of magnetic field.*
  - *Expose the key to high temperatures on places such as the dashboard or hood, under direct sunlight.*
- *If the engine does not start with the correct key, and the security indicator light keeps illuminating or flashing, the system may have a malfunction. Consult an Authorized Mazda Dealer.*

NOTE

- *The keys carry a unique electronic code. For this reason, and to assure your safety, obtaining a replacement key requires some waiting time. They are only available through an Authorized Mazda Dealer.*
- *Always keep a spare key in case one is lost. If a key is lost, consult an Authorized Mazda Dealer as soon as possible.*
- *If you lose a key, an Authorized Mazda Dealer will reset the electronic codes of your remaining keys and immobilizer system. Bring all the remaining keys to an Authorized Mazda Dealer to reset. Starting the vehicle with a key that has not been reset is not possible.*

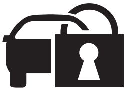
▼Operation

NOTE

- *The engine may not start and security indicator light may illuminate or flash if the key is placed in an area where it is difficult for the system to detect the signal, such as on the dashboard or in the glove compartment. Move the key to a location within the signal range, switch the ignition off, and then restart the engine.*
- *Signals from a TV or radio station, or from a transceiver or mobile telephone could interfere with your immobilizer system. If you are using the proper key and the engine fails to start, check the security indicator light.*

Arming

The system is armed when the ignition is switched from ON to off.
The security indicator light in the instrument cluster flashes every 2 seconds until the system is disarmed.



Disarming

The system is disarmed when the ignition is switched ON with the correct programmed key. The security indicator light illuminates for about 3 seconds and then turns off. If the engine does not start with the correct key, and the security indicator light remains illuminated or flashing, try the following:
Make sure the key is within the operational range for signal transmission. Switch the ignition off, and then restart the engine. If the engine does not start after 3 or more tries, contact an Authorized Mazda Dealer.

NOTE

- *If the security indicator light flashes continuously while you are driving, do not shut off the engine. Go to an Authorized Mazda Dealer and have it checked. If the engine is shut off while the indicator light is flashing, you will not be able to restart it.*
- *Because the electronic codes are reset when the immobilizer system is repaired, the keys are needed. Make sure to bring all the keys to an Authorized Mazda Dealer so that they can be programmed.*

Theft-Deterrent System*

If the theft-deterrent system detects an inappropriate entry into the vehicle, which could result in the vehicle or its contents being stolen, the alarm alerts the surrounding area of an abnormality by sounding the horn and flashing the hazard warning lights.

The system will not function unless it's properly armed. So when you leave the vehicle, follow the arming procedure correctly.

▼Operation

System triggering conditions

The horn sounds intermittently and the hazard warning lights flash for about 30 seconds when the system is triggered by any one of the following:

- Unlocking a door with the key, door lock switch, or an inside door-lock knob.
- Forcing open a door, the hood or the liftgate.
- Opening the hood by operating the hood release handle.
- Switching the ignition ON without using the push button start.

If the system is triggered again, the lights and horn will activate until the driver's door or the liftgate is unlocked with the transmitter.
(With the advanced keyless function)
The lights and horn can also be deactivated by pressing the request switch on a door.

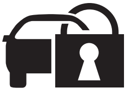
NOTE

- *The liftgate does not open while the theft-deterrent system is operating.*
- *For vehicles equipped with the power liftgate, the liftgate can be opened even while the theft-deterrent system is operating by pressing the power liftgate button on the transmitter or the electric liftgate opener switch while carrying the key.*
- *If the battery goes dead while the theft-deterrent system is armed, the horn will activate and the hazard warning lights will flash when the battery is charged or replaced.*

▼How to Arm the System

1. Close the windows and the moonroof* securely.
2. Switch the ignition OFF.
3. Make sure the hood, the doors, and the liftgate are closed.
4. Press the lock button on the transmitter or lock the driver's door from the outside with the auxiliary key.
   The hazard warning lights will flash once.
   The following method will also arm the theft-deterrent system:
   Press the door-lock switch “🔒” while any door is open and then close all of the doors.
   (With the advanced keyless function)
   Press a request switch.

   The security indicator light in the instrument cluster flashes twice per second for 20 seconds.



5. After 20 seconds, the system is fully armed.

NOTE

- *The theft-deterrent system can also be armed by activating the auto relock function with all the doors, the liftgate and the hood closed.*
  Refer to Transmitter on page 3-4.
- *The system will disarm if one of the following operations takes place within 20 seconds after pressing the lock button:*
  - *Unlocking any door.*
  - *Opening any door.*
  - *Opening the hood.*
  - *Switching the ignition ON.*

  To rearm the system, do the arming procedure again.
- *When the doors are locked by pressing the lock button on the transmitter or using the auxiliary key while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.*

▼To Turn Off an Armed System

An armed system can be turned off using any one of the following methods:

- Pressing the unlock button on the transmitter.
- Starting the engine with the push button start.
- **(With the advanced keyless function)**

  Pressing a request switch on the doors.

The hazard warning lights will flash twice.

NOTE

When the doors are unlocked by pressing the unlock button on the transmitter while the theft-deterrent system is turned off, the hazard warning lights will flash twice to indicate that the system is turned off.

▼To Stop the Alarm

A triggered alarm can be turned off using any one of the following methods:

- Pressing the unlock button on the transmitter.
- Starting the engine with the push button start.
- **(With the advanced keyless function)**
  - Pressing a request switch on the doors.
  - Pressing the electric liftgate opener while the key is being carried.
  - Pressing the power liftgate button on the transmitter .

The hazard warning lights will flash twice.

Break-In Period

No special break-in is necessary, but a few precautions in the first 1,000 km (600 miles) may add to the performance, economy, and life of the vehicle.

- Do not race the engine.
- Do not maintain one constant speed, either slow or fast, for a long period of time.
- Do not drive constantly at full-throttle or high engine rpm for extended periods of time.
- Avoid unnecessary hard stops.
- Avoid full-throttle starts.
- Do not tow a trailer.

Saving Fuel and Protection of the Environment

How you operate your Mazda determines how far it will travel on a tank of fuel. Use these suggestions to help save fuel and reduce CO2.

- Avoid long warm-ups. Once the engine runs smoothly, begin driving.
- Avoid fast starts.
- Drive at lower speeds.
- Anticipate when to apply the brakes (avoid sudden braking).
- Follow the maintenance schedule (page 6-4) and have an Authorized Mazda Dealer perform inspections and servicing.
- Use the air conditioner only when necessary.
- Slow down on rough roads.
- Keep the tires properly inflated.
- Do not carry unnecessary weight.
- Do not rest your foot on the brake pedal while driving.
- Keep the wheels in correct alignment.
- Keep windows closed at high speeds.
- Slow down when driving in crosswinds and headwinds.

⚠ WARNING

Never stop the engine when going down a hill:

> *Stopping the engine when going down a hill is dangerous. This causes the loss of power steering and power brake control, and may cause damage to the drivetrain. Any loss of steering or braking control could cause an accident.*

Hazardous Driving

WARNING

Be extremely careful if it is necessary to downshift on slippery surfaces:

Downshifting into lower gear while driving on slippery surfaces is dangerous. The sudden change in tire speed could cause the tires to skid. This could lead to loss of vehicle control and an accident.

Avoid sharp turns, excessive speed and abrupt maneuvers when driving this vehicle:

Sharp turns, excessive speed and abrupt maneuvering of this vehicle are dangerous as it could result in the increased risk of loss of vehicle control, vehicle roll-over, personal injury or death.
This vehicle has a higher center of gravity. Vehicles with a higher center of gravity such as utility vehicles handle differently than vehicles with a lower center of gravity.
Utility vehicles are not designed for cornering at high speeds any more than low profile sports cars are designed to perform satisfactorily under off-road conditions.
In addition, utility vehicles have a significantly higher rollover rate than other types of vehicles.
In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

When driving on ice or in water, snow, mud, sand, or similar hazards:

- Be cautious and allow extra distance for braking.
- Avoid sudden braking and sudden maneuvering.
- Do not pump the brakes. Continue to press down on the brake pedal.
  Refer to Antilock Brake System (ABS) on page 4-72.
- If you get stuck, select a lower gear and accelerate slowly. Do not spin the front wheels.
- For more traction in starting on slippery surfaces such as ice or packed snow, use sand, rock salt, chains, carpeting, or other nonslip material under the front wheels.

NOTE

Use snow chains only on the front wheels.

Floor Mat

We recommend the use of Genuine Mazda floor mats.

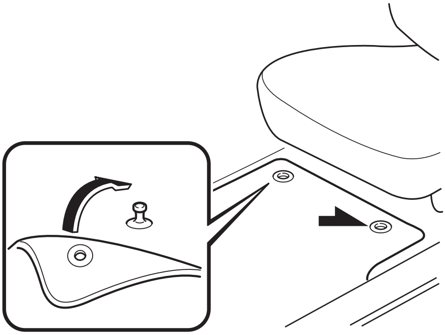
⚠ WARNING

Make sure the floor mats are hooked on the retention pins to prevent them from bunching up under the foot pedals:

> *Using a floor mat that is not secured is dangerous as it will interfere with the accelerator and brake pedal operation, which could result in an accident.*

Do not install two floor mats, one on top of the other, on the driver's side:

> *Installing two floor mats, one on top of the other, on the driver's side is dangerous as the retention pins can only keep one floor mat from sliding forward.*
> *Loose floor mat(s) will interfere with the foot pedal and could result in an accident.*
> *If using an all weather mat for winter use always remove the original floor mat.*



When setting a floor mat, position the floor mat so that its grommets are inserted over the pointed end of the retention posts.

Rocking the Vehicle

⚠ WARNING

Do not spin the wheels at more than 56 km/h (35 mph), and do not allow anyone to stand behind a wheel when pushing the vehicle:

> *When the vehicle is stuck, spinning the wheels at high speed is dangerous. The spinning tire could overheat and explode. This could cause serious injuries.*

⚠ CAUTION

> *Too much rocking may cause engine overheating, transaxle failure, and tire damage.*

If you must rock the vehicle to free it from snow, sand or mud, depress the accelerator slightly and slowly move the shift lever from D to R.

Winter Driving

Carry emergency gear, including tire chains, window scraper, flares, a small shovel, jumper cables, and a small bag of sand or salt.
Ask an Authorized Mazda Dealer to check the following:

- Have the proper ratio of antifreeze in the radiator.
  Refer to Engine Coolant on page 6-29.
- Inspect the battery and its cables. Cold reduces battery capacity.
- Use an engine oil appropriate for the lowest ambient temperatures that the vehicle will be driven in (page 6-26).
- Inspect the ignition system for damage and loose connections.
- Use washer fluid made with antifreeze—but do not use engine coolant antifreeze for washer fluid (page 6-31).

NOTE

- *Remove snow before driving. Snow left on the windshield is dangerous as it could obstruct vision.*
- *Do not apply excessive force to a window scraper when removing ice or frozen snow on the mirror glass and windshield.*
- *Never use warm or hot water for removing snow or ice from windows and mirrors as it could result in the glass cracking.*
- *Drive slowly. Braking performance can be adversely affected if snow or ice adheres to the brake components. If this situation occurs, drive the vehicle slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal.*

▼Snow Tires

Use snow tires on all four wheels

Do not go faster than 120 km/h (75 mph) while driving with snow tires. Inflate snow tires 30 kPa (0.3 kgf/cm^2, 4.3 psi) more than recommended on the tire pressure label (driver's door frame), but never more than the maximum cold-tire pressure shown on the tires.

The vehicle is originally equipped with all season radials designed to be used all year around. In some extreme climates you may find it necessary to replace them with snow tires during the winter months to further improve traction on snow and ice covered roads.

WARNING

Use only the same size and type tires (snow, radial, or non-radial) on all four wheels:

Using tires different in size or type is dangerous. Your vehicle's handling could be greatly affected and result in an accident.

CAUTION

Check local regulations before using studded tires.

▼ Tire Chains

Check local regulations before using tire chains.

⚠ CAUTION

- *Chains may affect handling.*
- *Do not go faster than 50 km/h (30 mph) or the chain manufacturer's recommended limit, whichever is lower.*
- *Drive carefully and avoid bumps, holes, and sharp turns.*
- *Avoid locked-wheel braking.*
- *Do not use chains on a temporary spare tire; it may result in damage to the vehicle and to the tire.*
- *Do not use chains on roads that are free of snow or ice. The tires and chains could be damaged.*
- *Chains may scratch or chip aluminum wheels.*

NOTE

- *If your vehicle is equipped with the tire pressure monitoring system, the system may not function correctly when using tire chains.*
- *Use of tire chains on a vehicle equipped with P255/50R20 specification tires could cause interference with the vehicle body and scratching. If tire chains are to be used, replace both front and rear tires with P255/60R18 tires. Please consult an Authorized Mazda Dealer.*

Install the chains on the front tires only. Do not use chains on the rear tires. Please consult an Authorized Mazda Dealer.

Installing the chains

1. Secure the chains on the front tires as tightly as possible.
   Always follow the chain manufacturer's instructions.
2. Retighten the chains after driving 1/2—1 km (1/4—1/2 mile).

Driving In Flooded Area

⚠ WARNING

Dry off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal:

Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected.

⚠ CAUTION

Do not drive the vehicle on flooded roads as it could cause short circuiting of electrical/electronic parts, or engine damage or stalling from water absorption. If the vehicle has been immersed in water, consult an Authorized Mazda Dealer.

Overloading

⚠ WARNING

Be careful not to overload your vehicle:

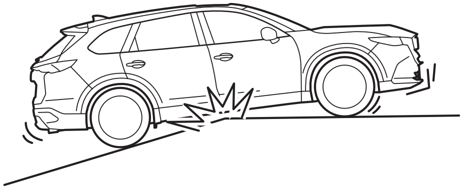
The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) of the vehicle are on the Motor Vehicle Safety Standard Label on the driver's door frame. Exceeding these ratings can cause an accident or vehicle damage. You can estimate the weight of the load by weighing the items (or people) before putting them in the vehicle.

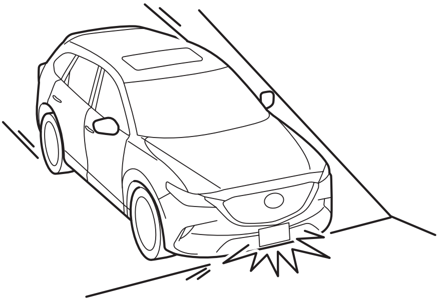
Driving on Uneven Road

Your vehicle's suspension and underbody can be damaged if driven on rough/uneven roads or over speed bumps at excessive speeds. Use care and reduce speed when traveling on rough/uneven roads or over speed bumps.

Use care not to damage the vehicle's underbody, bumpers or muffler(s) when driving under the following conditions:

- Ascending or descending a slope with a sharp transition angle
- Ascending or descending a driveway or trailer ramp with a sharp transition angle





This vehicle is equipped with low profile tires allowing class-leading performance and handling. As a result, the sidewall of the tires are very thin and the tires and wheels can be damaged if driven through potholes or on rough/uneven roads at excessive speeds. Use care and reduce speed when traveling on rough/uneven roads or through potholes.

Turbocharger Information

CAUTION

- *After driving at freeway speeds or up a long hill, idle the engine at least 30 seconds before stopping it. Otherwise, the turbocharger could be damaged.*
- *Racing or over-revving the engine, particularly after it's just been started, can damage the turbocharger.*
- *To protect the engine from damage, the engine is designed so that it cannot be raced just after starting it in extremely cold weather.*

The turbocharger greatly enhances engine power. Its advanced design provides improved operation and requires minimum maintenance.

To get the most from it, observe the following.

1. Change engine oil and filter according to Scheduled Maintenance (page 6-4).
2. Use only recommended engine oil (page 6-26). Extra additives are NOT recommended.

Trailer Towing (U.S.A. and Canada)

Your Mazda was designed and built primarily to carry passengers and cargo.
If you tow a trailer, follow these instructions because driver and passenger safety depends on proper equipment and safe driving habits. Towing a trailer will affect handling, braking, durability, performance, and fuel economy.
Never overload your vehicle or trailer. Consult an Authorized Mazda Dealer if you need further details.

⚠ CAUTION

> *Do not tow a trailer during the first 1,000 km (600 miles) of your new Mazda. If you do, you may damage the engine, transaxle, differential, wheel bearings, and other power-train components.*

NOTE

Your vehicle is equipped with a Trailer Stability Assist (TSA) mechanism, which enhances vehicle stability when towing a trailer.
Refer to Trailer Stability Assist (TSA) on page 4-76.

▼Weight Limits

TTW and GCWR

The total trailer weight (TTW), gross combination weight rating (GCWR), gross axle weight rating (GAWR), trailer load, and trailer tongue load must be within the prescribed limits.

- **The total trailer weight (TTW) is the sum of the weights of the trailer load (trailer weight plus cargo), trailer hitch, 2 passengers, and vehicle load (baggage, food, camp gear, etc.). Never allow the total trailer weight (TTW) to exceed specifications in the Trailer Towing-Load Table.**
- **The maximum GCWR is the combination weight of the trailer and load plus the towing vehicle (including trailer hitch, vehicle passengers, and load). It must not exceed specifications in the load table.**

GAWR and GVWR

Do not exceed front and rear GAWR (gross axle weight rating) and GVWR (gross vehicle weight rating). If you do, vehicle handling, braking, and performance will be affected. These values are also on the Motor Vehicle Safety Certification Label posted on the driver's door frame.

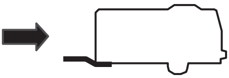
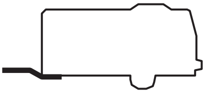
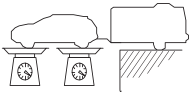
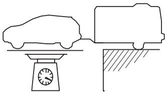
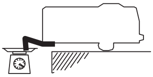
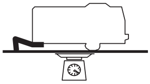
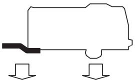
High-altitude operation

CAUTION

> *Be aware of the towing load weight differences when towing at high altitudes. For altitudes exceeding 1,000 meter (3,280 ft 10 in), always reduce the towing load by 10 % for every 1,000 meter (3,280 ft 10 in) increase in altitude from the load indicated under the maximum GCWR heading in the trailer towing-load table. If the determined maximum total towing load weight is exceeded, the engine and other power-train parts may be damaged.*

TRAILER TOWING-LOAD TABLE

Because vehicle weights vary, adjustments must be made to meet the requirements in this table.

<table>
<tr><th colspan="3" rowspan="2">Item</th><th colspan="2">Model</th></tr>
<tr><th>2WD</th><th>AWD</th></tr>
<tr><td>MAX. FRONTAL AREA</td><td colspan="2"></td><td colspan="2">2.97 m^{2} (32 ft^{2})</td></tr>
<tr><td>MAX. TTW</td><td colspan="2"></td><td colspan="2">1,587.5 kg (3,500 lb)</td></tr>
<tr><td>MAX. GCWR</td><td colspan="2"> </td><td>3,629 kg
(8,000.4 lb)</td><td>3,782 kg
(8,337.7 lb)</td></tr>
<tr><td rowspan="2">MAX. GAWR</td><td rowspan="2"></td><td>Front</td><td>1,217 kg
(2,683 lb)</td><td>1,241 kg
(2,736 lb)</td></tr>
<tr><td>Rear</td><td>1,386 kg
(3,056 lb)</td><td>1,433 kg
(3,159 lb)</td></tr>
<tr><td>MAX. GVWR</td><td colspan="2"></td><td>2,568 kg
(5,661 lb)</td><td>2,638 kg
(5,816 lb)</td></tr>
<tr><td rowspan="2">TRAILER-TONGUE LOAD</td><td>Tongue load</td><td></td><td colspan="2" rowspan="2">Tongue load/Trailer load × 100 = 10 % to 15 %</td></tr>
<tr><td>Trailer load</td><td></td></tr>
<tr><td rowspan="2">DISTRIBUTION OF TRAILER LOAD</td><td rowspan="2"></td><td>Front</td><td colspan="2">60 %</td></tr>
<tr><td>Rear</td><td colspan="2">40 %</td></tr>
</table>

⚠ WARNING

Always keep tow loads within specified limits as indicated in the Trailer Towing-Load Table:

> *Attempting to tow loads greater than those specified is dangerous as it may cause serious handling and performance problems that could result in personal injury or vehicle damage, or both.*

Load your trailer with the weight about 60 % toward the front and 40 % toward the rear:

> *Loading the trailer with more weight in the rear than in the front is dangerous. Doing so could cause you to lose control. The trailer tongue load must be 10 %—15 % of the total trailer load (sum of the weights of the trailer and cargo).*

Always have the total trailer weight and tongue load determined prior to departure:

> *Attempting to tow loads without determining the total trailer weight and tongue load is dangerous. Trailer sway from crosswinds, rough roads or other causes could result in loss of control and a serious accident.*

⚠ CAUTION

> *The total trailer weight and tongue load can be determined by weighing the trailer on platform scales at a highway weight station or a trucking company.*

▼Trailer Hitch

Use only a hitch ball recommended by the trailer manufacturer that conforms to the gross trailer weight requirement.
When not towing a trailer, remove the trailer hitch (if detachable) to reduce the possibility of damage as a result of the vehicle being rear-ended.

⚠ WARNING

Always make sure the trailer hitch is securely attached before departure:

An unsecured trailer hitch is dangerous as it causes greater trailer sway from crosswinds, rough roads or other causes, resulting in loss of control and a serious accident.
Examine all trailer-hitch mounting bolts regularly and tighten any that are loose. If the hitch is removed, seal any open mounting holes to prevent exhaust, dust, water, dirt and other foreign elements from filtering in, possibly endangering personal safety and damaging your vehicle.
Do not install a hitch that stiffens the bumper as it will reduce the bumper's performance.

Make sure there are no exhaust gas leaks into the passenger compartment if any mounting bolts are connected to the body:

Modifying your vehicle exhaust system is dangerous. Exhaust gas entering the vehicle could cause loss of consciousness or even death.
When mounting the trailer hitch, make no modifications to the vehicle exhaust system.

⚠ CAUTION

- *Make all hitch adjustments with actual loads. Do not load and unload vehicle while adjusting hitch. This action will change the vehicle height.*
- *Do not use an axle-mounted hitch. This may damage the axle and related parts.*

▼Tires

When towing a trailer, make sure all tires are inflated to the recommended cold-tire pressure, as indicated on the tire pressure chart on the driver's door frame. Trailer tire size, load rating, and inflation pressures should conform to tire manufacturer specifications.

⚠ WARNING

Never use the temporary spare tire when towing:

Using the temporary spare tire on your vehicle when towing a trailer is dangerous as it could result in tire failure, loss of control, and injury to vehicle occupants.

▼Safety Chains

Safety chains must be used as a precautionary measure should the trailer become unintentionally unhitched. They should cross under the trailer tongue and attach to the hitch. Leave enough slack to allow full turns. Consult literature published by your trailer or hitch manufacturer for more details.

⚠ WARNING

Make sure the safety chain is securely attached to both the trailer and the vehicle prior to departure:

> *Towing a trailer without using a safety chain securely attached to both the trailer and the vehicle is dangerous. If damage occurs to the coupling unit or hitch ball, the trailer could wander into another lane and cause a collision.*

▼Trailer Lights

Trailer lights must comply with all federal, state, and local regulations. Equip your trailer as required before towing it day or night.

⚠ CAUTION

> *Do not connect a trailer lighting system directly to the lighting system of your Mazda. This may damage your vehicle's electrical system and lighting systems. Have a recreational vehicle dealer or trailer rental agency connect the system, and inspect the brake lights and turn signals yourself before each trip.*

▼Trailer Brakes

If the total trailer weight exceeds 450 kg (1,000 lb), trailer brakes are required. If your trailer has brakes, make sure they comply with all federal, state, and local regulations.

⚠ WARNING

Do not connect a hydraulic trailer-brake system to your vehicle's brake system:

> *Connecting a hydraulic trailer-brake system directly to the vehicle brake system is dangerous and will result in inadequate braking and possible injury.*

▼Trailer Towing Tips

- Verify that your Mazda maintains a near-normal attitude when a loaded or unloaded trailer is connected. Do not drive if it has an abnormal front-up or front-down position. Inspect for incorrect tongue load, worn suspension parts, and trailer overloading.
- Make sure the trailer is properly loaded and the cargo is secure to prevent it from shifting.
- Make sure the mirrors conform to all government regulations. If they do not, install required rear view mirrors appropriate for towing purposes.

The three main causes of vehicle-trailer accidents are driver error, excessive speed, and improper trailer loading.

Before driving

- Have your cooling and braking system checked by an Authorized Mazda Dealer.
- Before starting out, inspect the operation of all vehicle and trailer lights and all vehicle-to-trailer connections. Stop and re-inspect all lights and connections after driving a short distance.

Driving

- Your Mazda will handle differently with a trailer in tow, so practice turning, backing, and stopping in a traffic-free area.
- Take time to get accustomed to the extra weight and length.
- Allow more room between your vehicle and the one in front because braking distance increases with a trailer. For each 16 km/h (10 mph) of speed, allow at least one vehicle and trailer length between your Mazda and the vehicle ahead.
- Avoid jerky starts or sudden acceleration.
- Avoid sudden braking. It may cause loss of control and result in jackknifing, especially so on wet or slippery roads.
- Shift the shift lever to the D position when towing a trailer in hilly terrain or when heavily loaded.

The D position will allow operating the vehicle without frequent shifting.

Lane changes and turning

Avoid quick lane changes, sudden turns, and tight turns. Slow down before turning to avoid the need of sudden braking.
A turning trailer will make a tighter arc than the tow vehicle. Compensate with turns that are larger than normal.

Passing

Plan well ahead to pass other vehicles, and provide plenty of room before changing lanes. Crosswinds from passing vehicles, especially larger ones, and the effects of rough roads will affect handling.
If swaying occurs, firmly grip the steering wheel and reduce speed immediately, but gradually.
Steer straight ahead. If no extreme correction of steering or braking is made, the combination of less speed and firm steering will result in stability.

Backing up

Backing a vehicle with a trailer requires practice and patience. Back slowly, and have a helper outside at the rear of the trailer to reduce the risk of an accident.
To turn the trailer, place your hand at the bottom of the steering wheel and turn it in the direction you want the trailer to go. Make only slight movements to prevent sharp or prolonged turning.

Ascending a hill

Shift into a lower gear to reduce the possibility of overloading or overheating the engine, or both.

Descending a hill

Shift into a lower gear and use engine compression as a braking effect.

⚠ WARNING

Always use lower gears to reduce speed:

Holding the brake pedal down too long or too frequently is dangerous as it could cause the brakes to overheat and lose power, resulting in loss of control and a serious accident. Use lower gears to help reduce speed. Pull off the road and allow brakes to cool down whenever braking performance feels reduced.

Overheated engine

The extra weight of the trailer may strain the engine on hot days and on long or steep upgrades.
If the temperature gauge indicates overheating, turn off the air conditioner, drive safely to the side of the road, park off the right-of-way and wait for engine to cool. Refer to Overheating on page 7-24.

DEP DEALER ePROCESS

Parking

Always make sure the tires of the trailer and the tow vehicle are blocked while parked. Apply the parking brake firmly and put the transaxle in P.

Avoid parking on an incline, but if you must, follow these instructions:

1. Depress and hold down the brake pedal.
2. Have a helper put wheel blocks against the downhill side of all vehicle and trailer tires.
3. Then release the brake pedal slowly until the blocks bear the load.
    - If the grade is downhill, turn the steering wheel so that the front of the front tires face the curb.
    - If it is uphill, face the rear of the front tires against the curb.
4. Firmly apply the parking brake.
5. Shift the transaxle into P, and stop the engine.

To restart after parking on an incline:

1. With the transaxle in P, start the engine. (Be sure to depress and hold the brake pedal.)
2. Shift into gear.
3. Release the parking brake (also the foot brake) and pull away from the wheel blocks. Stop; apply the parking brake and shift into P.
4. Have a helper retrieve the wheel blocks.

Fuel consumption

Trailer towing causes higher fuel consumption.

Maintenance

If you tow a trailer frequently, have your vehicle serviced as shown in Scheduled Maintenance (page 6-4).

Recreational Towing

An example of "recreational towing" is towing your vehicle behind a motorhome. The transaxle is not designed for towing this vehicle on all 4 wheels.
When doing recreational towing refer to "Towing Description" (page 7-26) and carefully follow the instructions.

4 When Driving

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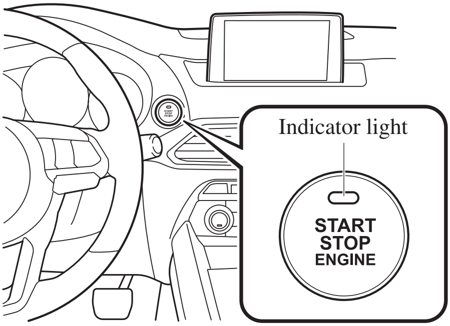
*Some models.

MEMO

Ignition Switch

▼Push Button Start Positions

The system operates only when the key is within operational range.
Each time the push button start is pressed, the ignition switches in the order of off, ACC, and ON. Pressing the push button start again from ON switches the ignition off.



NOTE

- *The engine starts by pressing the push button start while depressing the brake pedal. To switch the ignition position, press the push button start without depressing the pedal.*
- *Do not leave the ignition switched ON while the engine is not running. Doing so could result in the battery going dead. If the selector lever is in the P position, and the ignition is in ACC, the ignition switches off automatically after about 25 minutes.*

Off

The power supply to electrical devices turns off and the push button start indicator light (amber) also turns off.
In this position the steering wheel is locked.

⚠ WARNING

Before leaving the driver's seat, always switch the ignition off, set the parking brake, and make sure the selector lever is in P:

Leaving the driver's seat without switching the ignition off, setting the parking brake, and shifting the selector lever to P is dangerous. Unexpected vehicle movement could occur which could result in an accident.
In addition, if your intention is to leave the vehicle for even a short period, it is important to switch the ignition off, as leaving it in another position will disable some of the vehicle's security systems and run the battery down.

ACC (Accessory)

Some electrical accessories will operate and the indicator light (amber) illuminates.

NOTE

The keyless entry system does not function while the push button start has been pressed to ACC, and the doors will not lock/unlock even if they have been locked manually.

ON

This is the normal running position after the engine is started. The indicator light (amber) turns off. (The indicator light (amber) illuminates when the ignition is switched ON and the engine is not running.)
Some indicator lights/warning lights should be inspected before the engine is started (page 4-31).

NOTE

When the push button start is pressed to ON, the sound of the fuel pump motor operating near the fuel tank can be heard. This does not indicate an abnormality.

Starting the Engine

⚠ WARNING

Radio waves from the key may affect medical devices such as pacemakers:

Before using the key near people who use medical devices, ask the medical device manufacturer or your physician if radio waves from the key will affect the device.

DEP DEALER eProcess

Start/Stop Engine

NOTE

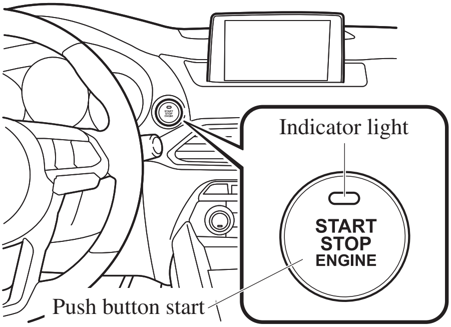
- *The key must be carried because the key carries an immobilizer chip that must communicate with the engine controls at short range.*
- *The engine can be started when the push button start is pressed from off, ACC, or ON.*
- *The push button start system functions (function which can start the engine by only carrying the key) can be deactivated to prevent any possible adverse effect on a user wearing a pacemaker or other medical device. If the system is deactivated, you will be unable to start the engine by carrying the key. Consult an Authorized Mazda Dealer for details. If the push button start system functions have been deactivated, you can start the engine by following the procedure indicated when the key battery goes dead.*
  Refer to Engine Start Function When Key Battery is Dead on page 4-8.
- *After starting a cold engine, the engine speed increases and a whining sound from the engine compartment can be heard.*
  This is for improved exhaust gas purification and does not indicate any parts defect.
- *Engine-starting is controlled by the spark ignition system.*
  This system meets all Canadian Interference-Causing Equipment Standard requirements regulating the impulse electrical field strength of radio noise.

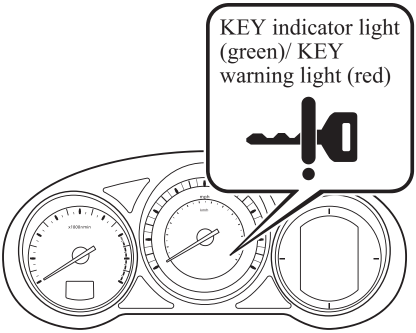
1. Make sure you are carrying the key.
2. Occupants should fasten their seat belts.
3. Make sure the parking brake is on.
4. Continue to press the brake pedal firmly until the engine has completely started.
5. Put the vehicle in park (P). If you must restart the engine while the vehicle is moving, shift into neutral (N).

NOTE

The starter will not operate if the selector lever is not in P or N and the brake pedal is not depressed sufficiently.

6. Verify that the KEY indicator light (green) (if equipped) in the instrument cluster and the push button start indicator light (green) illuminate.





DEP DEALER ePROCESS

NOTE

- *If the push button start indicator light (green) flashes, make sure that the key is being carried (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster).*
- *If the push button start indicator light (green) flashes with the key being carried, touch the key to the push button start and start the engine (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster). Refer to Engine Start Function When Key Battery is Dead on page 4-8.*

⚠ CAUTION

> *If the KEY warning light (red) illuminates, or the push button start indicator light (amber) flashes, this could indicate a problem with the engine starting system. This may prevent the engine from starting or from switching the ignition to ACC or ON (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster). Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.*

NOTE

- *Under the following conditions, the KEY warning light (red) flashes after the push button start is pressed. This informs the driver that the push button start will not switch to ACC, even if it is pressed from off (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster).*
  - *The key battery is dead.*
  - *The key is out of operational range.*
  - *The key is placed in areas where it is difficult for the system to detect the signal (page 3-7).*
  - *A key from another manufacturer similar to the key is in the operational range.*
- ***(Forced engine starting method)***
  If the KEY warning light (red) illuminates, or the push button start indicator light (amber) flashes, this could indicate that the engine may not start using the usual starting method (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster). Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible. If this occurs, the engine can be force-started. Press and hold the push button start until the engine starts. Other procedures necessary for starting the engine, such as having the key in the cabin, and depressing the brake pedal are required.

- *When the engine is force-started, the KEY warning light (red) (if equipped) remains illuminated and the push button start indicator light (amber) remains flashing.*
- *When the selector lever is in the neutral (N) position, the KEY indicator light (green) (if equipped) and the push button start indicator light (green) do not illuminate.*

7. Press the push button start after both the KEY indicator light (green) (if equipped) in the instrument cluster and the push button start indicator light (green) illuminate.

NOTE

- *After starting the engine, the push button start indicator light (amber) turns off and the ignition switches to the ON position.*
- *After pressing the push button start and before the engine starts, the operation sound of the fuel pump motor from near the fuel tank can be heard, however, this does not indicate a malfunction.*

8. After starting the engine, let it idle for about ten seconds.

NOTE

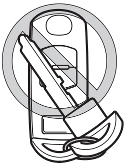
- *Whether the engine is cold or warm, it should be started without the use of the accelerator.*
- *If the engine does not start the first time, refer to Starting a Flooded Engine under Emergency Starting. If the engine still does not start, have your vehicle inspected by an Authorized Mazda Dealer (page 7-23).*

▼Engine Start Function When Key Battery is Dead

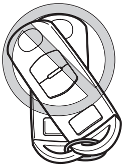
⚠ CAUTION

When starting the engine by holding the transmitter over the push button start due to a dead key battery or a malfunctioning key, be careful not to allow the following, otherwise the signal from the key will not be received correctly and the engine may not start.

- *Metal parts of other keys or metal objects touch the key.*



- *Spare keys or keys for other vehicles equipped with an immobilizer system touch or come near the key.*

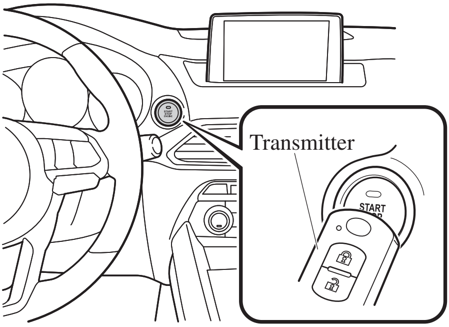


- *Devices for electronic purchases, or security passage touch or come near the key.*

DEP DEALER ePROCESS

If the engine cannot be started due to a dead key battery, the engine can be started using the following procedure:

1. Continue to depress the brake pedal firmly until the engine has completely started.
2. Verify that the push button start indication light (green) flashes.
3. Touch the push button start using the backside of the key (as shown) while the push button start indicator light (green) flashes.



NOTE

When touching the push button start using the backside of the key as shown in the illustration, touch the push button start with the lock switch side of the key facing up.

4. Verify that the push button start indicator light (green) turns on.
5. Press the push button start to start the engine.

NOTE

- *The engine cannot be started unless the brake pedal is fully depressed.*
- *If there is a malfunction with the push button start function, the push button start indicator light (amber) flashes. In this case, the engine may start, however, have the vehicle checked at an Authorized Mazda Dealer as soon as possible.*
- *If the push button start indicator light (green) does not illuminate, perform the operation from the beginning again. If it does not illuminate, have the vehicle checked at an Authorized Mazda Dealer.*
- *To switch the ignition position without starting the engine, perform the following operations after the push button start indicator light (green) turns on.*

    1. *Release the brake pedal.*
    2. *Press the push button start to switch the ignition position. The ignition switches in the order of ACC, ON, and off each time the push button start is pressed. To switch the ignition position again, perform the operation from the beginning.*

▼Emergency Operation for Starting the Engine

If the KEY warning light (red) illuminates, or the push button start indicator light (amber) flashes, this could indicate that the engine may not start using the usual starting method (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster). Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible. If this occurs, the engine can be force-started. Press and hold the push button start until the engine starts. Other procedures necessary for starting the engine such as having the key in the cabin, and depressing the brake pedal are required.

Turning the Engine Off

⚠ WARNING

Do not stop the engine while the vehicle is moving:

Stopping the engine while the vehicle is moving for any reason other than in an emergency is dangerous. Stopping the engine while the vehicle is moving will result in reduced braking ability due to the loss of power braking, which could cause an accident and serious injury.

1. Stop the vehicle completely.
2. Shift the selector lever to the P position and set the parking brake.
3. Press the push button start to turn off the engine. The ignition position is off.

⚠ CAUTION

When leaving the vehicle, make sure the push button start is off.

NOTE

- *The cooling fan in the engine compartment could turn on for a few minutes after the ignition is switched from ON to OFF, whether or not the A/C is on or off, to cool the engine compartment quickly.*
- *If the system detects that the remaining battery power of the key is low when the ignition is switched from ON to ACC or OFF, the following is indicated.*
  Replace with a new battery before the key becomes unusable.
  Refer to Key Battery Replacement on page 6-40.
  (Vehicle equipped with Type A instrument cluster)
  A message is indicated in the display of the instrument cluster.
  (Vehicle equipped with Type B instrument cluster)
  The KEY indicator light (green) flashes for approximately 30 seconds.
  Refer to Warning/Indicator Lights on page 4-31.
- *If the engine is turned off while the selector lever is in a position other than P, the ignition switches to ACC.*

▼Emergency Engine Stop

Continuously pressing the push button start or quickly pressing it any number of times while the engine is running or the vehicle is being driven will turn the engine off immediately. The ignition switches to ACC.

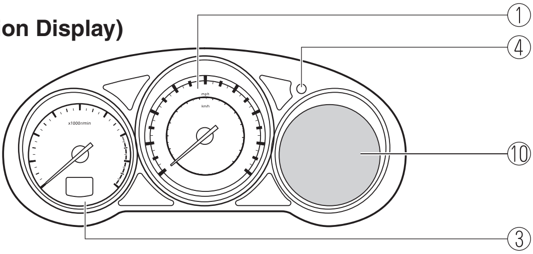
Instrument Cluster and Display

Meters and Gauges

Instrument Cluster

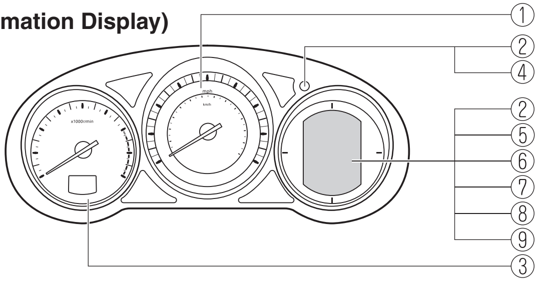
Type A

(With Multi-information Display)


①
④
⑩
③
x1000r/min
mph
km/h

Type B

(Without Multi-information Display)


①
②
④
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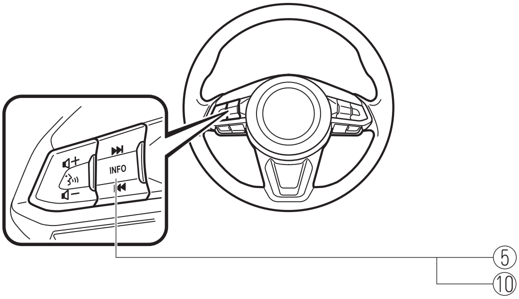
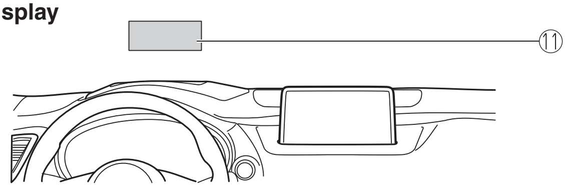
⑤
⑥
⑦
⑧
⑨
③
x1000r/min
mph
km/h

Steering Switch



Active Driving Display



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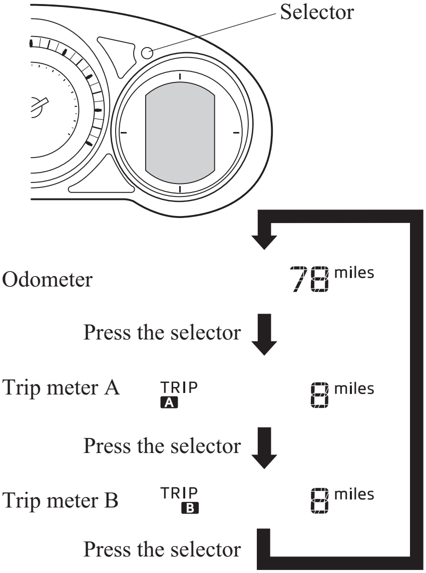
⑨ Cruise Control Set Vehicle Speed Display..page 4-18
⑩ Multi-information Display and INFO Switch..page 4-21
⑪ Active Driving Display ....page 4-29

▼Speedometer

The speedometer indicates the speed of the vehicle.

▼Odometer, Trip Meter and Trip Meter Selector (Without Multi-information Display)

The display mode can be changed from odometer to trip meter A to trip meter B and then back to odometer by pressing the selector while one of them is displayed. The selected mode will be displayed.



NOTE

When the ignition is switched to ACC or off, the odometer or trip meters cannot be displayed, however, pressing the selector can inadvertently switch the trip meters or reset them during an approximate ten-minute period in the following cases:

- *After the ignition is switched to off from ON.*
- *After the driver's door is opened.*

Odometer

The odometer records the total distance the vehicle has been driven.

Trip meter

The trip meter can record the total distance of two trips. One is recorded in trip meter A, and the other is recorded in trip meter B.

For instance, trip meter A can record the distance from the point of origin, and trip meter B can record the distance from where the fuel tank is filled.

When trip meter A is selected, pressing the selector again within one second will change to trip meter B mode.

When trip meter A is selected, TRIP A will be displayed. When trip meter B is selected, TRIP B will be displayed.

The trip meter records the total distance the vehicle is driven until the meter is again reset. Return it to “0.0” by depressing and holding the selector for one second or more. Use this meter to measure trip distances and to compute fuel consumption.

NOTE

- *If the fuel economy data is reset using the fuel economy monitor, or trip A is reset using the trip meter when the function which synchronizes the fuel economy monitor and the trip meter is on, the fuel economy data and trip A are reset simultaneously.*
  Refer to Fuel Economy Monitor on page 4-77.
- *Only the trip meters record tenths of kilometers (miles).*
- *The trip record will be erased when:*
  - *The power supply is interrupted (blown fuse or the battery is disconnected).*
  - *The vehicle is driven over 9999.9 km (mile).*

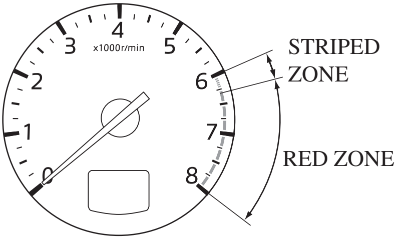
▼Tachometer

The tachometer shows engine speed in thousands of revolutions per minute (rpm).

CAUTION

Do not run the engine with the tachometer needle in the RED ZONE. This may cause severe engine damage.

Instrument Cluster

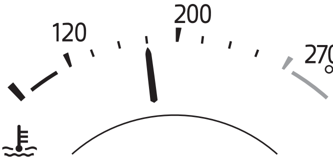


NOTE

When the tachometer needle enters the STRIPED ZONE, this indicates to the driver that the gears should be shifted before entering the RED ZONE.

▼Engine Coolant Temperature Gauge (Without Multi-information Display)

Displays the engine coolant temperature. The white gauge indicates that the engine coolant temperature is low, and the red gauge indicates that the engine coolant temperature is high and overheating.



⚠ CAUTION

If the engine coolant temperature gauge indicator flashes, there is a possibility of overheating. Park the vehicle in a safe place immediately and take appropriate measures. If the vehicle continues to be driven, it could cause damage to the engine.
Refer to Overheating on page 7-24.

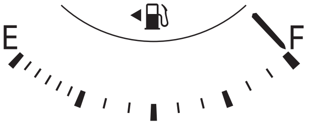
NOTE

- *The temperature unit (Centigrade/Fahrenheit) of the engine coolant gauge display changes in conjunction with the temperature unit of the outside temperature display.*
  Refer to Personalization Features on page 9-11.
- *During normal driving, the engine coolant temperature stabilizes at 100 °C (210 °F) or less, and the gauge indicates a range lower than 100 °C (210 °F).*
- *If the engine load increases and the engine coolant temperature exceeds 100 °C (210 °F), the gauge indicates the engine coolant temperature.*

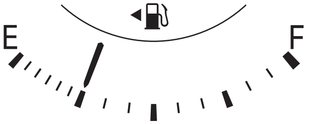
▼Fuel Gauge (Without Multi-information Display)

The fuel gauge shows approximately how much fuel is remaining in the tank when the ignition is switched ON. We recommend keeping the tank over 1/4 full.

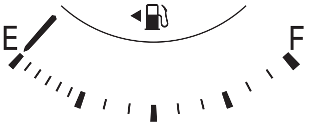
Full



1/4 Full



Empty



If the low fuel warning light illuminates or the fuel level is very low, refuel as soon as possible.
Refer to Warning Indication/Warning Lights on page 4-32.

NOTE

- *After refueling, it may require some time for the indicator to stabilize. In addition, the indicator may deviate while driving on a slope or curve since the fuel moves in the tank.*
- *The display indicating a quarter or less remaining fuel has more segments to show the remaining fuel level in greater detail.*
- *The direction of the arrow (◂⛽) indicates that the fuel-filler lid is on the left side of the vehicle.*

▼Dashboard Illumination

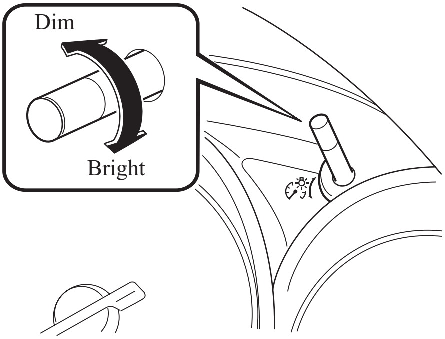
(Without auto-light control)
When the position lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed.
(With auto-light control)
When the position lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed. However, when the light sensor detects that the surrounding area is bright such as when the position lights are turned on in the daytime, the dashboard illumination does not dim.

NOTE

- ***(With auto-light control)***
  When the ignition is switched ON in the early evening or at dusk, the dashboard illumination is dimmed for several seconds until the light sensor detects the brightness of the surrounding area, however, the dimmer may cancel after the brightness is detected.
- *When the position lights are turned on, the position lights indicator light in the instrument cluster turns on.*
  Refer to Headlights on page 4-48.

The brightness of the instrument cluster and dashboard illuminations can be adjusted by rotating the knob.

- The brightness decreases by rotating the knob to the left. A beep sound will be heard when the knob has been rotated to the maximum dim position.
- The brightness increases by rotating the knob to the right.



Function for cancelling illumination dimmer

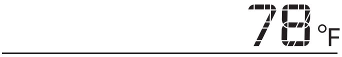
The illumination dimmer can be canceled by rotating the dashboard illumination knob to the right until a beep sound is heard while the instrument cluster is dimmed with the ignition switched ON.
If the instrument cluster's visibility is reduced due to glare from surrounding brightness, cancel the illumination dimmer.

NOTE

- ***(With Multi-information Display)*** *The illumination dimmer can be canceled by pressing the dashboard illumination knob.*
- *When the illumination dimmer is canceled, the instrument cluster cannot be dimmed even if the position lights are turned on.*
- *When the illumination dimmer is canceled, the screen in the center display switches to constant display of the daytime screen.*

▼Outside Temperature Display (Without Multi-information Display)

When the ignition is switched ON, the outside temperature is displayed.



NOTE

Under the following conditions, the outside temperature display may differ from the actual outside temperature depending on the surroundings and vehicle conditions:

- *Significantly cold or hot temperatures.*
- *Sudden changes in outside temperature.*
- *The vehicle is parked.*
- *The vehicle is driven at low speeds.*

Changing the Temperature Unit of the Outside Temperature Display

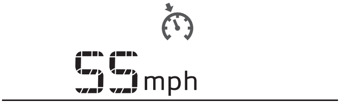
The outside temperature unit can be switched between Celsius and Fahrenheit. Settings can be changed by operating the center display screen.
Refer to Personalization Features on page 9-11.

NOTE

When the temperature unit indicated in the outside temperature display is changed, the temperature unit indicated in the engine coolant gauge display changes in conjunction with it.

▼Cruise Control Set Vehicle Speed Display (Without Multi-information Display)

The vehicle speed preset using the cruise control is displayed.



▼Trip Computer and INFO Switch (Without Multi-information Display)

The following information can be selected by pressing the INFO switch with the ignition switched ON.

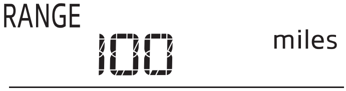
- Distance-to-empty mode
- Average fuel economy mode
- Current fuel economy mode
- Compass mode

If you have any problems with your trip computer, consult an Authorized Mazda Dealer.

Distance-to-empty mode

This mode displays the approximate distance you can travel on the remaining fuel based on the fuel economy.

The distance-to-empty will be calculated and displayed every second.

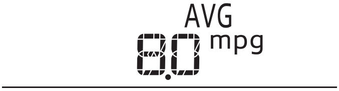


NOTE

- *Even though the distance-to-empty display may indicate a sufficient amount of remaining driving distance before refueling is required, refuel as soon as possible if the fuel level is very low or the low fuel warning light illuminates.*
- *The display may not change unless you add more than approximately 9 L (2.3 US gal, 1.9 Imp gal) of fuel.*
- *The distance-to-empty is the approximate remaining distance the vehicle can be driven until all the graduation marks in the fuel gauge (indicating the remaining fuel supply) disappear.*
- *If there is no past fuel economy information such as after first purchasing your vehicle or the information is deleted when the battery cables are disconnected, the actual distance-to empty/range may differ from the amount indicated.*

Average fuel economy mode

This mode displays the average fuel economy by calculating the total fuel consumption and the total traveled distance since purchasing the vehicle, re-connecting the battery after disconnection, or resetting the data. The average fuel economy is calculated and displayed every minute.



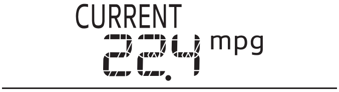
To clear the data being displayed, press the INFO switch for more than 1.5 seconds. After pressing the INFO switch, - - - L/100 km (- - - mpg) will be displayed for about 1 minute before the fuel economy is recalculated and displayed.

DEP DEALER ePROCESS

Current fuel economy mode

This mode displays the current fuel economy by calculating the amount of fuel consumption and the distance traveled.

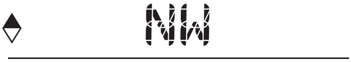
Current fuel economy will be calculated and displayed every 2 seconds.



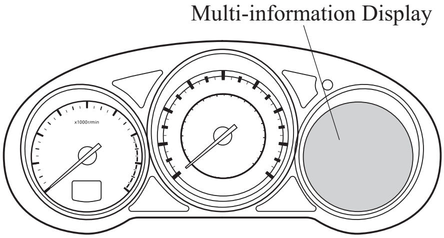
When you've slowed to about 5 km/h (3 mph), - - - L/100 km (- - - mpg) will be displayed.

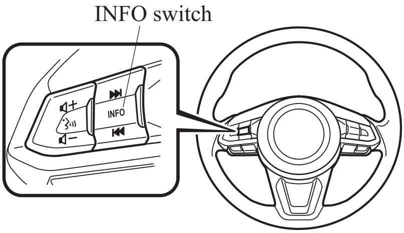
Compass mode

The direction the vehicle is moving is displayed in one of the eight cardinal directions while the vehicle is being driven.



Multi-information Display and INFO Switch*





The multi-information display indicates the following information.

- Odometer
- Trip meter
- Engine coolant temperature gauge
- Fuel gauge
- Outside temperature
- Distance-to-empty
- Average fuel economy
- Current fuel economy
- Maintenance Monitor
- Blind Spot Monitoring (BSM) Display
- Distance Recognition Support System (DRSS) Display
- Mazda Radar Cruise Control (MRCC) Display
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Display
- Cruise Control Display
- Compass Display
- Warning message

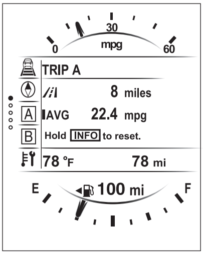
*Some models.

Instrument Cluster and Display

The screen content changes each time the INFO switch is pressed.

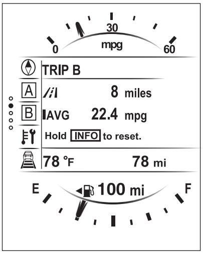
Press the INFO switch

Current Fuel Economy, Trip Meter A, Average Fuel Economy, Outside Temperature, Odometer, Distance-to-empty, Fuel Gauge


0
30
60
mpg
TRIP A
8 miles
AVG 22.4 mpg
Hold INFO to reset.
78 °F
78 mi
E
100 mi
F

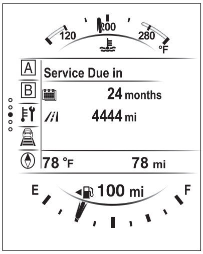
Press the INFO switch

Current Fuel Economy, Trip Meter B, Average Fuel Economy, Outside Temperature, Odometer, Distance-to-empty, Fuel Gauge


0
30
60
mpg
TRIP B
8 miles
AVG 22.4 mpg
Hold INFO to reset.
78 °F
78 mi
E
100 mi
F

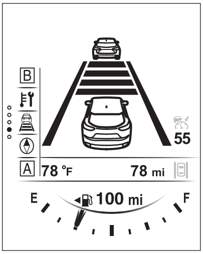
Press the INFO switch

Engine Coolant Temperature Gauge, Maintenance Monitor, Outside Temperature, Odometer, Distance-to-empty, Fuel Gauge


120
200
280
°F
Service Due in
24 months
4444 mi
78 °F
78 mi
E
100 mi
F

Press the INFO switch

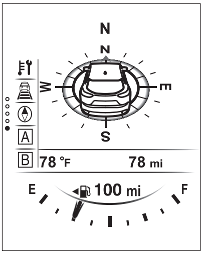
i-ACTIVSENSE display, Outside Temperature, Odometer, Distance-to-empty, Fuel Gauge


55
78 °F
78 mi
E
100 mi
F

Press the INFO switch

*2

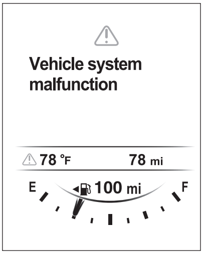
Compass, Outside Temperature, Odometer, Distance-to-empty, Fuel Gauge


N
N
W
E
S
78 °F
78 mi
E
100 mi
F

Press the INFO switch

*1

Warning message, Outside Temperature, Odometer, Distance-to-empty, Fuel Gauge


Vehicle system malfunction
78 °F
78 mi
E
100 mi
F

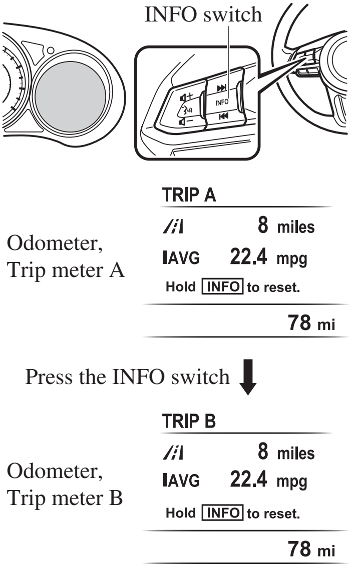
Press the INFO switch

*1:Displayed only when a warning occurs.

*2:Displayed only while vehicle is being driven.

▼Odometer, Trip Meter and Trip Meter Selector

The odometer is constantly displayed on the screen when the ignition is switched ON, and the TRIP A or TRIP B screen can be displayed by operating the INFO switch.


INFO switch
INFO
Odometer,
Trip meter A
TRIP A
8 miles
AVG 22.4 mpg
Hold INFO to reset.
78 mi
Press the INFO switch
Odometer,
Trip meter B
TRIP B
8 miles
AVG 22.4 mpg
Hold INFO to reset.
78 mi

Odometer

The odometer records the total distance the vehicle has been driven.

Trip meter

The driving distance for a specified interval is indicated. Two types (TRIP A, TRIP B) of interval distance and the average fuel economy for each can be measured.

For instance, trip meter A can record the distance from the point of origin, and trip meter B can record the distance from where the fuel tank is filled.

When trip meter A is selected, TRIP A will be displayed. When trip meter B is selected, TRIP B will be displayed.

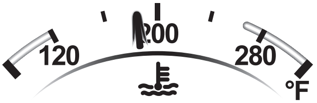
The trip meter and average fuel economy can be reset by pressing the INFO switch for 1.5 second or more while in each mode.

NOTE

- *Only the trip meters record tenths of kilometers (miles).*
- *The trip record will be erased when:*
  - *The power supply is interrupted (blown fuse or the battery is disconnected).*
  - *The vehicle is driven over 1999 km (mile).*

▼Engine Coolant Temperature Gauge

Displays the engine coolant temperature. The blue gauge indicates that the engine coolant temperature is low, and the red gauge indicates that the engine coolant temperature is high and overheating.



⚠ CAUTION

If the high engine coolant temperature warning light (red) turns on, there is a possibility of overheating. Park the vehicle in a safe place immediately and take appropriate measures. If the vehicle continues to be driven, it could cause damage to the engine.
Refer to Overheating on page 7-24.

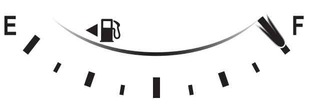
NOTE

- *The temperature unit (Centigrade/Fahrenheit) of the engine coolant gauge display changes in conjunction with the temperature unit of the outside temperature display.*
  Refer to Personalization Features on page 9-11.
- *During normal driving, the engine coolant temperature stabilizes at 100 °C (210 °F) or less, and the gauge indicates a range lower than 100 °C (210 °F).*
- *If the engine load increases and the engine coolant temperature exceeds 100 °C (210 °F), the gauge indicates the engine coolant temperature.*

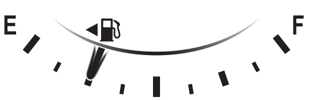
▼Fuel Gauge

The fuel gauge shows approximately how much fuel is remaining in the tank when the ignition is switched ON. We recommend keeping the tank over 1/4 full.

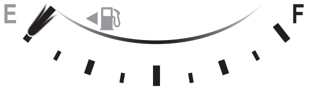
Full



1/4 Full



Empty



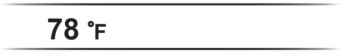
If the fuel level is low, (◄⛽) and (**E**) turn an amber color. Refuel as soon as possible. Refer to Taking Action on page 7-38.

NOTE

- *After refueling, it may require some time for the indicator to stabilize. In addition, the indicator may deviate while driving on a slope or curve since the fuel moves in the tank.*
- *The display indicating a quarter or less remaining fuel has more segments to show the remaining fuel level in greater detail.*
- *The direction of the arrow (◄⛽) indicates that the fuel-filler lid is on the left side of the vehicle.*

▼Outside Temperature Display

When the ignition is switched ON, the outside temperature is displayed.



NOTE

Under the following conditions, the outside temperature display may differ from the actual outside temperature depending on the surroundings and vehicle conditions:

- *Significantly cold or hot temperatures.*
- *Sudden changes in outside temperature.*
- *The vehicle is parked.*
- *The vehicle is driven at low speeds.*

Changing the Temperature Unit of the Outside Temperature Display

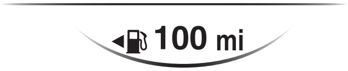
The outside temperature unit can be switched between Celsius and Fahrenheit. Settings can be changed by operating the center display screen.
Refer to Personalization Features on page 9-11.

NOTE

When the temperature unit indicated in the outside temperature display is changed, the temperature unit indicated in the engine coolant gauge display changes in conjunction with it.

▼Distance-to-empty

This displays the approximate distance you can travel on the remaining fuel based on the fuel economy.
The distance-to-empty will be calculated and displayed every second.

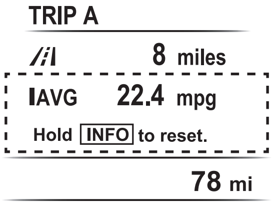


NOTE

- *Even though the distance-to-empty display may indicate a sufficient amount of remaining driving distance before refueling is required, refuel as soon as possible if the fuel level is very low or the low fuel warning light illuminates.*
- *The display will not change unless you add more than approximately 9 L (2.3 US gal, 1.9 Imp gal) of fuel.*
- *The distance-to-empty is the approximate remaining distance the vehicle can be driven until all the graduation marks in the fuel gauge indicating the remaining fuel supply disappear.*
- *If there is no past fuel economy information such as after first purchasing your vehicle or the information is deleted when the battery cables are disconnected, the actual distance-to empty/range may differ from the amount indicated.*

▼Average Fuel Economy

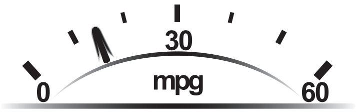
The average fuel economy is calculated every minute from the total traveled distance on the trip meter and the total fuel consumption, and the average fuel economy for either TRIP A or TRIP B is displayed.



The average fuel economy and trip meters can be reset by pressing the INFO switch for 1.5 s or more while in each mode. After the data is cleared, the fuel consumption is recalculated and the - - - L/100 km (- - - mpg) for the one minute prior to it being displayed is indicated.

▼Current Fuel Economy

This displays the current fuel economy by calculating the amount of fuel consumption and the distance traveled.



▼Maintenance Monitor

The following maintenance period notifications can be displayed by turning the Maintenance Monitor on.

- Scheduled Maintenance
- Tire Rotation
- Oil Change

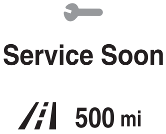
For the setting method and indications for the maintenance monitor, refer to the Maintenance Monitor.
Refer to Maintenance Monitor on page 6-19.
The maintenance monitor displays the information when the ignition is switched ON.

NOTE

This function is inoperable while the vehicle is being driven.

Message display

When the remaining time or the distance approaches 0, a message is displayed each time the ignition is switched ON.

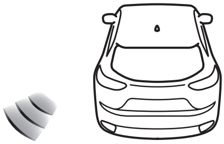


NOTE

- *If any of the INFO switch is pressed while a message is displayed, it will no longer be displayed the next time the ignition is switched ON.*
- *After the vehicle is serviced and the remaining time/distance is reset, the message for the next maintenance period will be displayed when the remaining distance or time to the next maintenance period approaches 0 (displays when engine is started).*
- *If there are multiple messages, they are displayed according to their order.*
- *If OFF is set for Messages, messages are not displayed.*

▼Blind Spot Monitoring (BSM) Display

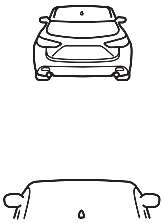
Displays the system status.



Refer to Blind Spot Monitoring (BSM) on page 4-91.

▼Distance Recognition Support System (DRSS) Display*

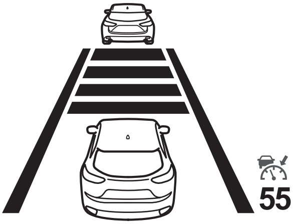
Displays the distance between your vehicle and the vehicle ahead.



Refer to Distance Recognition Support System (DRSS) on page 4-97.

▼Mazda Radar Cruise Control (MRCC) Display*

Displays the currently set system status.



Refer to Mazda Radar Cruise Control (MRCC) on page 4-105.

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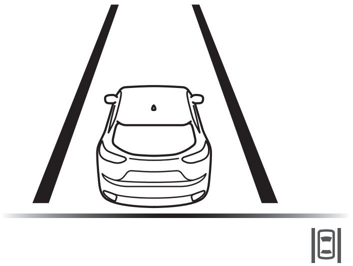
*Some models.

▼Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Display*

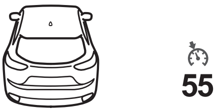
Displays the system status.



Refer to Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) on page 4-116.

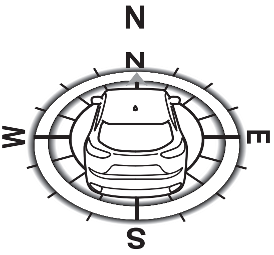
▼Cruise Control Set Vehicle Speed Display*

The vehicle speed preset using the cruise control is displayed.



▼Compass Display

The direction the vehicle is moving is displayed while the vehicle is being driven.

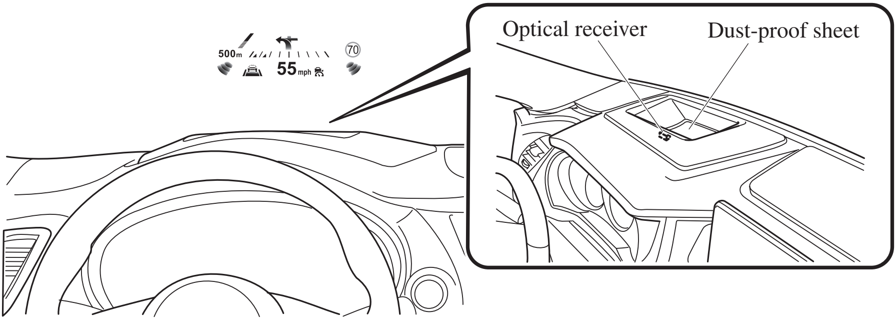


▼Warning (Display Indication)

A message is displayed to notify the user of the system operation status and malfunctions or abnormalities.
If the warning light turns on/flashes simultaneously or a symbol is indicated in the display, check the information regarding the warning light or symbol. (page 4-31)
When only a message is displayed, refer to Message Indicated in Multi-information Display. (page 7-44)

*Some models.

Active Driving Display*



WARNING

Always adjust the display brightness and position with the vehicle stopped:

Adjusting the display brightness and position while driving the vehicle is dangerous as doing so could distract your attention from the road ahead and lead to an accident.

CAUTION

- *Do not place beverages near the active driving display. If water or other liquids are splashed on the active driving display, it could cause damage.*
- *Do not place objects above the active driving display or apply stickers to the dust-proof sheet/optical receiver as they will cause interference.*
- *A sensor is integrated to control the display's luminosity. If the optical receiver is covered, the display's luminosity will lower making the display difficult to view.*
- *Do not allow intense light to hit the optical receiver. Otherwise, it could cause damage.*

NOTE

- *It may be difficult to view the display when wearing polarized sunglasses. Take off your polarized sunglasses or adjust the luminosity.*
- *If the battery has been removed and re-installed or the battery voltage is low, the adjusted position may deviate.*
- *The display may be difficult to view or temporarily affected by weather conditions such as rain, snow, light, and temperature.*
- *If the audio system is removed, the active driving display cannot be operated.*

---

*Some models.

The active driving display indicates the following information:

- Blind Spot Monitoring (BSM) Operation Conditions and Warnings
  Refer to Blind Spot Monitoring (BSM) on page 4-91.
- Distance Recognition Support System (DRSS) Operation Conditions and Warnings
  Refer to Distance Recognition Support System (DRSS) on page 4-97.
- Mazda Radar Cruise Control (MRCC) Operation Conditions and Warnings
  Refer to Mazda Radar Cruise Control (MRCC) on page 4-105.
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Operation Conditions and Warnings
  Refer to Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) on page 4-116.
- Smart City Brake Support (SCBS) Warnings
  Refer to Smart City Brake Support (SCBS) on page 4-128.
- Smart Brake Support (SBS) Operation Conditions and Warnings
  Refer to Smart Brake Support (SBS) on page 4-133.
- Cruise Control Operation Conditions
  Refer to Cruise Control on page 4-146.
- Navigation Guidance (vehicles with navigation system)
- Speed limit indicator (vehicles with navigation system)
- Vehicle Speed

Each setting/adjustment for the active driving display can be performed on the center display.

1. Select the ⚙ icon on the home screen and display the Settings screen.
2. Select the AD-Disp tab.
3. Select the desired item and perform the setting/adjustment.
    - Method for adjusting screen brightness (automatically/manually)
    - Screen brightness initial settings (automatic adjustment is selected)
    - Screen brightness adjustment (manual adjustment is selected)
    - Display position of active driving display (display height)
    - Active driving display angle adjustment (display angle correction)
    - Turn by turn (TBT) display/non-display (navigation guidance)
    - Street name display timing can be changed (navigation guidance)
    - Active driving display ON/OFF (indication)
    - Reset settings (reset)

NOTE

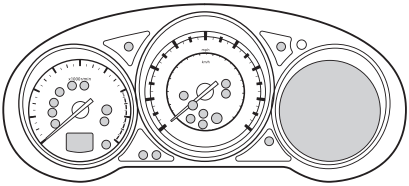
The desired driving position (display position, brightness level, display information) can be called up after programming the position.
Refer to Driving Position Memory on page 2-8.

Warning/Indicator Lights

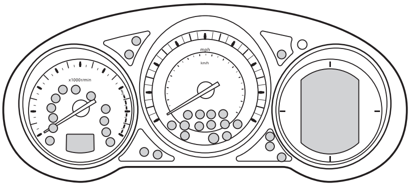
Instrument Cluster varies depending on model and specifications.

Instrument Cluster

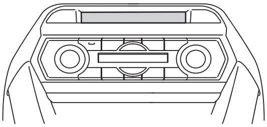
Type A
(With Multi-information Display)



Type B
(Without Multi-information Display)



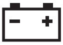
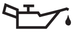
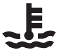
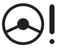
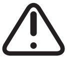
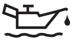
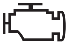
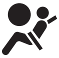
Center of Dashboard



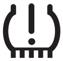
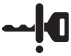
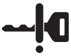
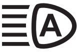
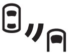
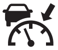
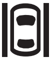
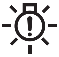
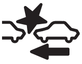
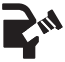
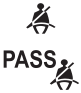
Warning/Indicator lights will appear in any of the highlighted areas

▼Warning Indication/Warning Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

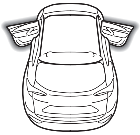
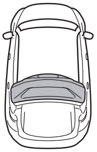
Signal	Warning	Page
(!) BRAKE	Brake System Warning Indication/Warning Light[*1][*2]	7-30
(ABS)/ABS	ABS Warning Light[*1]	Electronic Brake Force Distribution System Warning 7-30, ABS warning 7-33
	Charging System Warning Indication/Warning Light[*1]	7-30
	Engine Oil Warning Light[*1]	7-30
 (Red)	*High Engine Coolant Temperature Warning Indication/Warning Light[*1]	7-30
	Power Steering Malfunction Indication/Malfunction Indicator Light[*1]	7-30
	*Master Warning Indication/Warning Light[*1]	7-33
(P!)	Electric Parking Brake Warning Indication/Warning Light	7-33
	*Engine Oil Level Warning Indication	7-33
	Check Engine Light[*1]	7-33
AT	Automatic Transaxle Warning Indication/Warning Light[*1]	7-33
4WD	*AWD Warning Indication/Warning Light[*1]	7-33
	Air Bag/Front Seat Belt Pretensioner System Warning Light[*1]	7-33

*Some models.

Signal	Warning	Page
	*Tire Pressure Monitoring System Warning Light[*1]	Flashing 7-33, Illuminate 7-38
 (Amber)	*KEY Warning Indication	7-33
 (Red)	*KEY Warning Light[*1]	Malfunction 7-33, Except malfunction 7-38
 (Amber)	*High Beam Control System (HBC) Warning Indication/Warning Light[*1]	7-33
	*Blind Spot Monitoring (BSM) Warning Indication/Warning Light[*1]	7-33
 (Amber)	*Mazda Radar Cruise Control (MRCC) Warning Indication	7-33
 (Amber)	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Warning Indication	7-33
	LED Headlight Warning Light	7-33
 (Amber)	*Smart Brake Support/Smart City Brake Support (SBS/SCBS) Warning Indication	7-38
	Low Fuel Warning Indication/Warning Light	7-38
	*Check Fuel Cap Warning Indication/Warning Light[*1]	7-38
	Seat Belt Warning Light	7-38

*Some models.

Instrument Cluster and Display

Signal	Warning	Page
	Engine Oil Level Warning Light	7-38
	*Low Washer Fluid Level Warning Indication/Warning Light	7-38
	*Door-Ajar Warning Indication	7-38
	*Liftgate-Ajar Warning Indication	7-38
	*Door-Ajar Warning Light	7-38

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.
*2 The light turns on continuously when the parking brake is applied.

*Some models.

▼Indication/Indicator Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Indicator	Page
PASS AIRBAG OFF	Front Passenger Air Bag Deactivation Indicator Light*[1]	2-65
(White/Green)	KEY Indication/Indicator Light	4-5
	Security Indicator Light*[1]	3-47
	Wrench Indication/Indicator Light*[1]	4-37
(Blue)	*Low Engine Coolant Temperature Indicator Light	4-37
	Shift Position Indication	4-41
	Lights-On Indication/Indicator Light	4-48
	Headlight High-Beam Indicator Light	Headlight High-Low Beam 4-52, Flashing the Headlights 4-52
⬅ ➡	Turn Signal/Hazard Warning Indicator Lights	Turn and Lane-Change Signals 4-54, Hazard Warning Flasher 4-61
	Brake Pedal Operation demand Indicator Light	4-67
	TCS/DSC Indicator Light*[1]	(Flashes) Traction Control System (TCS) 4-73, Dynamic Stability Control (DSC) 4-75 (Turns on) 7-33

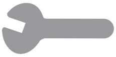
*Some models.

Signal	Indicator	Page
TCS OFF	TCS OFF Indicator Light[*1]	4-74
SPORT	Select Mode Indication	4-80
A (Green)	*High Beam Control System (HBC) Indicator Light	4-90
(White)	*Mazda Radar Cruise Control (MRCC) Main Indication	4-109
(Green)	*Mazda Radar Cruise Control (MRCC) Set Indication	4-109
(White/Green)	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Indication	4-120
	*Smart City Brake Support (SCBS) Indication	4-132
OFF	*Smart Brake Support/Smart City Brake Support (SBS/SCBS) OFF Indicator Light[*1]	Smart City Brake Support (SCBS) System 4-132, Smart Brake Support (SBS) System 4-135
(White)	*Cruise Main Indication	4-147
(Green)	*Cruise Set Indication	4-147

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

*Some models.

▼Wrench Indicator Light*



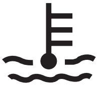
When the ignition is switched ON, the wrench indicator light turns on and then turns off after a few seconds.

The wrench indicator light turns on under the following conditions:

- When the preset maintenance period has arrived.
- When its time to replace the engine oil.

Refer to Maintenance Monitor on page 6-19.

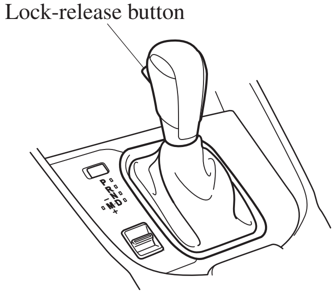
▼Low Engine Coolant Temperature Indicator Light (Blue)*

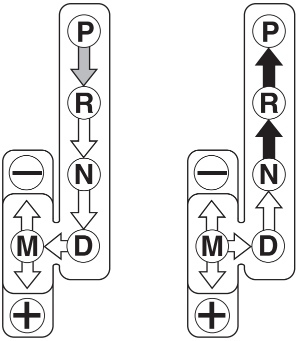


The light illuminates continuously when the engine coolant temperature is low and turns off after the engine is warm.

*Some models.

Automatic Transaxle Controls





Various Lockouts:

➨ Indicates that you must depress the brake pedal and hold in the lock-release button to shift (The ignition must be switched ON).

⇨ Indicates the selector lever can be shifted freely into any position.

➡ Indicates that you must hold in the lock-release button to shift.

NOTE

The Sport AT has an option that is not included in the traditional automatic transaxle that gives the driver the option of selecting each gear instead of leaving it to the transaxle to shift gears. Even if you intend to use the automatic transaxle functions as a traditional automatic, you should also be aware that you can inadvertently shift into manual shift mode and an inappropriate gear may be retained as the vehicle speed increases. If you notice the engine speed going higher or hear the engine racing, confirm you have not accidentally slipped into manual shift mode (page 4-42).

Shift-Lock System

The shift-lock system prevents shifting out of P unless the brake pedal is depressed.

To shift from P:

1. Depress and hold the brake pedal.
2. Start the engine.
3. Press and hold the lock-release button.
4. Move the selector lever.

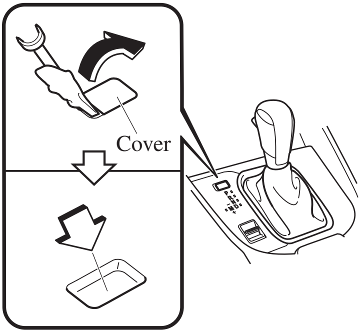
NOTE

- *When the ignition is switched to ACC or the ignition is switched off, the selector lever cannot be shifted from P.*
- *The ignition cannot be switched to OFF if the selector lever is not in P.*

▼Shift-Lock Override

If the selector lever will not move from P using the proper shift procedure, continue to hold down the brake pedal.

1. Remove the shift-lock override cover using a cloth-wrapped flat head screwdriver.
2. Insert a screwdriver and push it down.



3. Press and hold the lock-release button.
4. Move the selector lever.

Take the vehicle to an Authorized Mazda Dealer to have the system checked.

Transaxle Ranges

- The shift position indicator light in the instrument cluster illuminates. Refer to Warning/Indicator Lights on page 4-31.
- The selector lever must be in P or N to operate the starter.

P (Park)

P locks the transaxle and prevents the front wheels from rotating.

⚠ WARNING

Always set the selector lever to P and set the parking brake:

Only setting the selector lever to the P position without using the parking brake to hold the vehicle is dangerous. If P fails to hold, the vehicle could move and cause an accident.

⚠ CAUTION

- *Shifting into P, N or R while the vehicle is moving can damage your transaxle.*
- *Shifting into a driving gear or reverse when the engine is running faster than idle can damage the transaxle.*

R (Reverse)

In position R, the vehicle moves only backward. You must be at a complete stop before shifting to or from R, except under rare circumstances as explained in Rocking the Vehicle (page 3-52).

NOTE

(With parking sensor system)

When the selector lever is shifted to the R position with the ignition switched ON, the parking sensor system is activated and a beep sound is heard.

Refer to Parking Sensor System on page 4-163.

N (Neutral)

In N, the wheels and transaxle are not locked. The vehicle will roll freely even on the slightest incline unless the parking brake or brakes are on.

⚠ WARNING

If the engine is running faster than idle, do not shift from N or P into a driving gear:

It's dangerous to shift from N or P into a driving gear when the engine is running faster than idle. If this is done, the vehicle could move suddenly, causing an accident or serious injury.

Do not shift into N when driving the vehicle:

Shifting into N while driving is dangerous. Engine braking cannot be applied when decelerating which could lead to an accident or serious injury.

⚠ CAUTION

Do not shift into N when driving the vehicle. Doing so can cause transaxle damage.

NOTE

Apply the parking brake or depress the brake pedal before moving the selector lever from N to prevent the vehicle from moving unexpectedly.

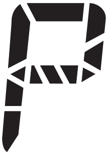
D (Drive)

D is the normal driving position. From a stop, the transaxle will automatically shift through a 6-gear sequence.

M (Manual)

M is the manual shift mode position. Gears can be shifted up or down by operating the selector lever. Refer to Manual Shift Mode on page 4-42.

▼Shift Position Indication



The selector position is indicated when the ignition is switched ON.

Gear position indication

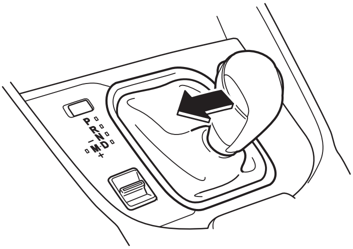
In manual shift mode, the “M” of the shift position indication illuminates and the numeral for the selected gear is displayed.

▼Active Adaptive Shift (AAS)

Active Adaptive Shift (AAS) automatically controls the transaxle shift points to best suit the road conditions and driver input. This improves driving feel. The transaxle may switch to AAS mode when driving up and down slopes, cornering, driving at high elevations, or depressing the accelerator pedal quickly while the selector lever is in the D position. Depending on the road and driving conditions/vehicle operations, gear shifting could be delayed or not occur, however, this does not indicate a problem because the AAS mode will maintain the optimum gear position.

Manual Shift Mode

The manual shift mode gives you the feel of driving a manual transaxle vehicle by allowing you to operate the selector lever manually. This allows you to control engine rpm and torque to the drive wheels much like a manual transaxle when more control is desired.
To change to manual shift mode, shift the lever from D to M.



NOTE

Changing to manual shift mode while driving will not damage the transaxle.

To return to automatic shift mode, shift the lever from M to D.

NOTE

- *If you change to manual shift mode when the vehicle is stopped, the gear will shift to M1.*
- *If you change to manual shift mode without depressing the accelerator pedal when driving in D range, 5th gear/6th gear, the gear will shift to M4/M5.*

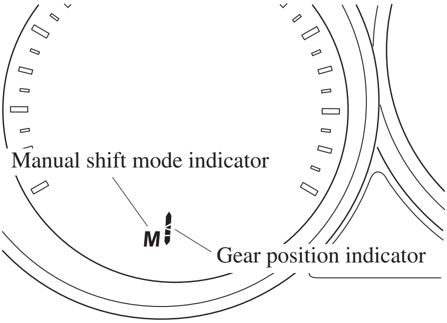
▼Indicators

Manual shift mode indication

In manual shift mode, the "M" of the shift position indication in the instrument panel illuminates.

Gear position indication

The numeral for the selected gear illuminates.

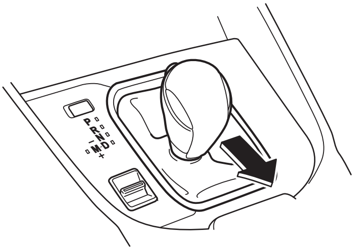


NOTE

- *If the gears cannot be shifted down when driving at higher speeds, the gear position indication will flash twice to signal that the gears cannot be shifted down (to protect the transaxle).*
- *If the automatic transaxle fluid (ATF) temperature becomes too high, there is the possibility that the transaxle will switch to automatic shift mode, canceling manual shift mode and turning off the gear position indication illumination. This is a normal function to protect the AT. After the ATF temperature has decreased, the gear position indication illumination turns back on and driving in manual shift mode is restored.*

▼Manually Shifting Up

You can shift gears up by operating the selector lever.
M1 → M2 → M3 → M4 → M5 → M6
To shift up to a higher gear, tap the selector lever back + once.

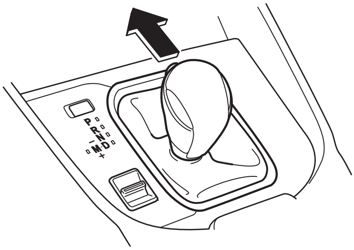


NOTE

- *When driving slowly, the gears may not shift up.*
- *Do not drive the vehicle with the tachometer needle in the RED ZONE while in manual shift mode. In addition, manual shift mode switches to automatic shift mode while the accelerator pedal is completely depressed.*
  This function is canceled while the TCS is turned off. However, if the vehicle is continuously driven at a high rpm, the gears may automatically shift up to protect the engine.

▼Manually Shifting Down

You can shift gears down by operating the selector lever.
M6 → M5 → M4 → M3 → M2→ M1
To shift down to a lower gear, tap the selector lever forward − once.



⚠ WARNING

Do not use engine braking on slippery road surfaces or at high speeds:

Shifting down while driving on wet, snowy, or frozen roads, or while driving at high speeds causes sudden engine braking, which is dangerous. The sudden change in tire speed could cause the tires to skid. This could lead to loss of vehicle control and an accident.

NOTE

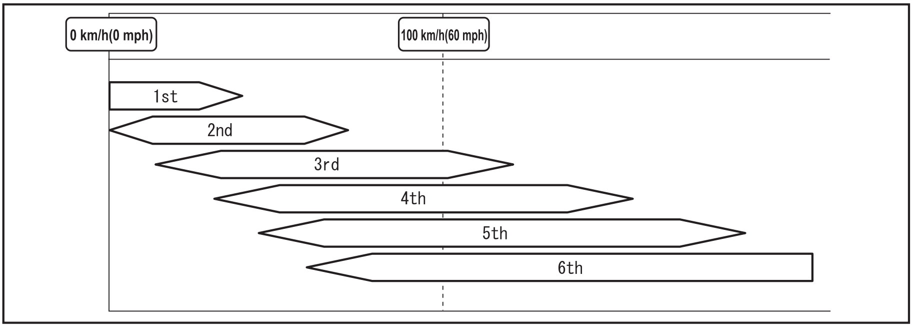
- *When driving at high speeds, the gear may not shift down.*
- *During deceleration, the gear may automatically shift down depending on vehicle speed.*
- *When depressing the accelerator fully, the transaxle will shift to a lower gear, depending on vehicle speed. However, the gears do not kickdown while the TCS is turned off.*

▼Second Gear Fixed Mode

When the selector lever is moved back + while the vehicle speed is about 10 km/h (6.2 mph) or less, the transaxle is set in the second gear fixed mode. The gear is fixed in second while in this mode for easier acceleration from a stop and driving on slippery roads such as snow-covered roads.
If the selector lever is moved back + or forward − while in the second gear fixed mode, the mode will be canceled.

▼Shift Gear (Shifting) Speed Limit

For each gear position while in the manual mode, the speed limit is set as follows: When the selector lever is operated within the range of the speed limit, the gear is shifted.



Shift up

The gear does not shift up while the vehicle speed is lower than the speed limit.

Shift down

The gear does not shift down while the vehicle speed exceeds the speed limit.
If the vehicle speed exceeds the speed limit and the gear does not shift down, the gear position indication flashes 2 times to notify the driver that the gear cannot be shifted.

Kickdown

When the accelerator pedal is depressed fully while driving, the gear shifts down.
However, the gears do not kickdown while the TCS is turned off.

NOTE

The gear also shifts down using kickdown while in the second gear fixed mode.

Auto-shift down

The gear shifts down automatically depending on the vehicle speed during deceleration.

NOTE

If the vehicle comes to a stop while in the second gear fixed mode, the gear remains in second.

Automatic Transaxle

▼Recommendations for Shifting

Upshifting

For normal acceleration and cruising, Mazda recommends these shift points:

Gear	Vehicle speed[*1]
M1 to M2	24 km/h (15 mph)
M2 to M3	40 km/h (25 mph)
M3 to M4	65 km/h (40 mph)
M4 to M5	73 km/h (45 mph)
M5 to M6	81 km/h (50 mph)

*1 Always observe local speed limit regulations.

Downshifting

When you must slow down in heavy traffic or on a steep upgrade, downshift before the engine starts to overwork. This gives better acceleration when you need more speed.

On a steep downgrade, downshifting helps maintain safe speed and prolongs brake life.

Driving Tips

WARNING

Do not let the vehicle move in a direction opposite to the direction selected by the selector lever:

Do not let the vehicle move backward with the selector lever in a forward position, or do not let the vehicle move forward with the selector lever in the reverse position. Otherwise, the engine may stop, causing the loss of the power brake and power steering functions, and make it difficult to control the vehicle which could result in an accident.

Passing

For extra power when passing another vehicle or climbing steep grades, depress the accelerator fully. The transaxle will shift to a lower gear, depending on vehicle speed.

NOTE

- *The accelerator pedal may initially feel heavy as it is being depressed, then feel lighter as it is depressed further. This change in pedal force aids the engine control system in determining how much the accelerator pedal has been depressed for performing kickdown, and functions to control whether or not kickdown should be performed.*
- *While the selector lever is in the M position and the TCS is turned off, manual shift mode does not switch to automatic shift mode even if the accelerator pedal is completely depressed. Operate the selector lever.*

Climbing steep grades from a stop

To climb a steep grade from a stopped position:

1. Depress the brake pedal.
2. Shift to D or M1, depending on the load weight and grade steepness.
3. Release the brake pedal while gradually accelerating.

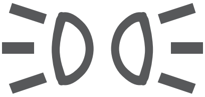
Descending steep grades

When descending a steep grade, shift to lower gears, depending on load weight and grade steepness. Descend slowly, using the brakes only occasionally to prevent them from overheating.

Lighting Control

▼Headlights

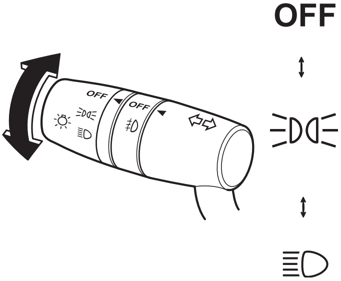
Turn the headlight switch to turn the headlights and other exterior lights on or off.
When the lights are turned on, the lights-on indicator light in the instrument cluster turns on.



NOTE

- *If the light switch is left on, the lights will automatically switch off approximately 30 seconds after switching the ignition off.*
  The time setting can be changed.
  Refer to Personalization Features on page 9-11.
- *To prevent discharging the battery, do not leave the lights on while the engine is off unless safety requires them.*

Without auto-light control

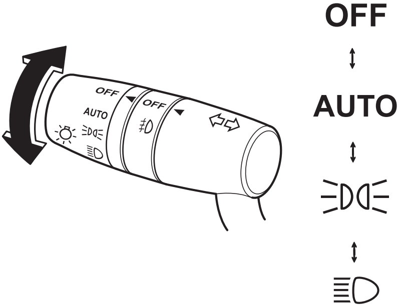


Switch Position	OFF		≡D D≡		≣D	
Ignition Position	**ON**	**ACC or OFF**	**ON**	**ACC or OFF**	**ON**	**ACC or OFF**
Headlights	Off	Off	Off	Off	On	On*2
Daytime running lights	On*1	Off	On*1	Off	Off	Off
Taillights Parking lights License lights Side-marker lights	Off	Off	On	On*2	On	On*2

*1 The lights are turned on while the vehicle is driven.
*2 The lights are turned on for the specified period by the auto headlight off function.

DEP DEALER ePROCESS

With auto-light control



Switch Position	OFF		AUTO		=D0=		≡D	
Ignition Position	**ON**	**ACC or OFF**	**ON**	**ACC or OFF**	**ON**	**ACC or OFF**	**ON**	**ACC or OFF**
Headlights	Off	Off	Auto*2	Auto*4	Off	Off	On	On*5
Daytime running lights	On*1	Off	On*3	Off	On*1	Off	Off	Off
Taillights Parking lights License lights Side-marker lights	Off	Off	Auto*2	Auto*4	On	On*5	On	On*5

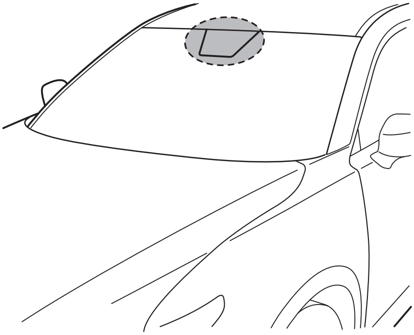
*1 The lights are turned on while the vehicle is driven.
*2 The lights are turned on by the auto light function.
*3 The lights are turned on while the vehicle is driven, and turned off when the headlights are turned on by the auto light function.
*4 The lights are turned on continuously if the ignition is switched from ON to any other position with the lights turned on. The lights are turned on for the specified period by the auto headlight off function.
*5 The lights are turned on for the specified period by the auto headlight off function.

Auto-light control*

When the headlight switch is in the **AUTO** position and the ignition is switched ON, the light sensor senses the surrounding lightness or darkness and automatically turns the headlights and other exterior lights on or off.

⚠ CAUTION

- *Do not shade the light sensor by adhering a sticker or a label on the windshield. Otherwise the light sensor will not operate correctly.*



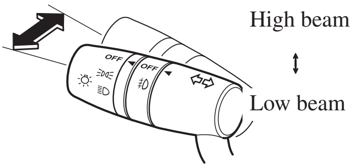
- *The light sensor also works as a rain sensor for the auto-wiper control. Keep hands and scrapers clear of the windshield when the wiper lever is in the* **AUTO** *position and the ignition is switched ON as fingers could be pinched or the wipers and wiper blades could be damaged when the wipers activate automatically. If you are going to clean the windshield, be sure the wipers are turned off completely when it is particularly tempting to leave the engine running. This is particularly important when clearing ice and snow.*

NOTE

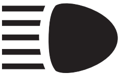
- *The headlights and other exterior lights may not turn off immediately even if the surrounding area becomes well-lit because the light sensor determines that it is night time if the surrounding area is continuously dark for several minutes such as inside long tunnels, traffic jams inside tunnels, or in indoor parking lots.*
  In this case, the lights turn off if the light switch is turned to the OFF *position.*
- *If the headlight switch and the windshield wiper switch are in* **AUTO***, and the wipers are operated at low or high speed by the auto wiper control for several seconds, bad weather conditions are determined and the headlights may be turned on.*
- *The sensitivity of the auto-light control may be changed.*
  Refer to Personalization Features on page 9-11.

▼Headlight High-Low Beam

The headlights switch between high and low beams by moving the lever forward or backward.

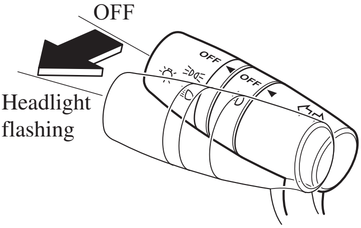


When the headlight high-beams are on, the headlight high-beam indicator light is turned on.

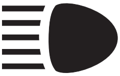


▼Flashing the Headlights

Can be used when the ignition is switched ON.
To flash the headlights, pull the lever fully towards you (the headlight switch does not need to be on).



The headlight high-beam indicator light in the instrument cluster illuminates simultaneously. The lever will return to the normal position when released.

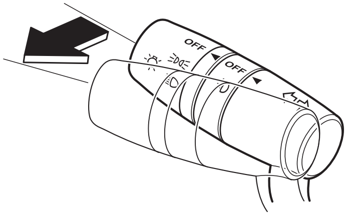


▼Coming Home Light

The coming home light turns on the headlights (low beams) when the lever is operated.

To turn on the lights

When the lever is pulled with the ignition switched to ACC or OFF, the low beam headlights turn on.
The headlights turn off after a certain period of time has elapsed after the doors are closed.



NOTE

- *The time until the headlights turn off after all of the doors are closed can be changed.*
  Refer to Personalization Features on page 9-11.
- *If no operations are done for 3 minutes after the lever is pulled, the headlights turn off.*
- *The headlights turn off if the lever is pulled again while the headlights are illuminated.*

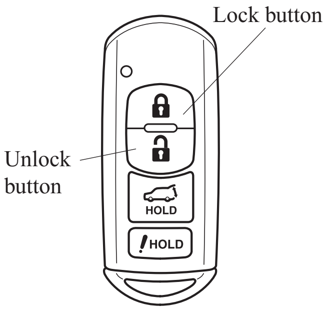
▼Leaving Home Light

The leaving home light turns on the lights when the transmitter unlock button is pressed while away from the vehicle.
The following lights turn on when the leaving home light is operated.
Low beams, Parking lights, Taillights, License lights.

To turn on the lights

When the ignition switch and the headlight switch are in the following conditions, the headlights will illuminate when the transmitter unlock button is pressed and the vehicle receives the transmitter signal. The headlights turn off after a certain period of time has elapsed (30 seconds).

- Ignition switch: off
- Headlight switch:AUTO or ⫶D0⫶ or ≣D



NOTE

- *Operation of the leaving home light can be turned on or off.*
  Refer to Personalization Features on page 9-11.
- *When the transmitter lock button is pressed and the vehicle receives the transmitter signal, the headlights turn off.*
- *When the headlight switch is turned to the* OFF *position, the headlights turn off.*

▼Headlight Leveling

The number of passengers and weight of cargo in the luggage compartment change the angle of the headlights.

The angle of the headlights will be automatically adjusted when turning on the headlights.

▼Daytime Running Lights

Some countries require moving vehicles to have their lights on (daytime running lights) during the daytime.

The daytime running lights turn on when the vehicle is driven and turn off when the parking brake is operated or the selector lever is shifted to the P position.

NOTE

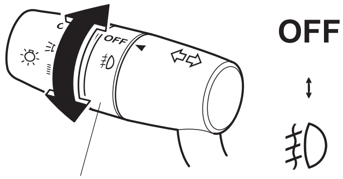
(Except Canada)
The daytime running lights can be deactivated.
Refer to Personalization Features on page 9-11.

Fog Lights*

The fog lights can be turned on with the ignition switched ON and the headlights turned on.

Use this switch to turn on the fog lights. The fog lights will improve visibility at night and during foggy conditions.

The fog lights turn on when the fog light switch is turned to the position and turn off when the switch is turned to the OFF position.



NOTE

The fog lights will turn off when the headlights are set at high beams.

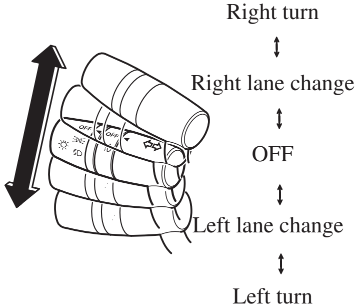
Turn and Lane-Change Signals

The ignition must be switched ON to use the turn and lane-change signals.

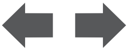
▼Turn Signals

Move the signal lever down (for a left turn) or up (for a right turn) to the stop position. The signal will self-cancel after the turn is completed.

If the indicator light continues to flash after a turn, manually return the lever to its original position.



The turn signal indicators in the instrument cluster flash according to the operation of the turn signal lever to show which signal is working.



NOTE

- *If an indicator light stays on without flashing or if it flashes abnormally, one of the turn signal bulbs may be burned out.*
- *A personalized function is available to change the turn indicator sound volume. (page 9-11)*

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*Some models.

▼Lane-Change Signals

Move the lever halfway toward the direction of the lane change—until the indicator flashes— and hold it there. It will return to the off position when released.

▼Three-Flash Turn Signal

After releasing the turn signal lever, the turn signal indicator flashes three times. The operation can be cancelled by moving the lever in the direction opposite to which it was operated.

NOTE

The three-flash turn signal function can be switched to operable/inoperable using the personalization function.
Refer to Personalization Features on page 9-11.

Windshield Wipers and Washer

The ignition must be switched ON to use the wipers.

⚠ WARNING

Use only windshield washer fluid or plain water in the reservoir:

> *Using radiator antifreeze as washer fluid is dangerous. If sprayed on the windshield, it will dirty the windshield, affect your visibility, and could result in an accident.*

Only use windshield washer fluid mixed with anti-freeze protection in freezing weather conditions:

> *Using windshield washer fluid without anti-freeze protection in freezing weather conditions is dangerous as it could freeze on the windshield and block your vision which could cause an accident. In addition, make sure the windshield is sufficiently warmed using the defroster before spraying the washer fluid.*

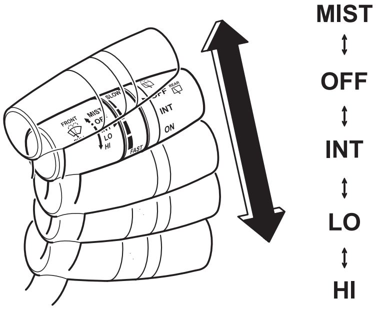
NOTE

If the windshield wipers are operated under cold weather conditions or during snowfall, they could stop due to accumulated snow on the windshield. If the windshield wipers stop due to accumulated snow on the windshield, park the vehicle in a safe place, turn the wiper switch off, and then remove the accumulated snow. If the wiper switch is turned to another position other than OFF, the wipers will operate. If the wipers do not operate even though the wiper switch is turned to a position other than OFF, consult an Authorized Mazda Dealer as soon as possible.

▼Windshield Wipers

Turn the wipers on by pressing the lever up or down.

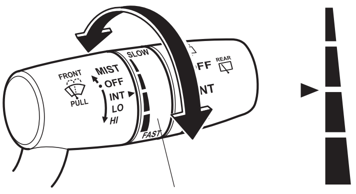
With intermittent wiper



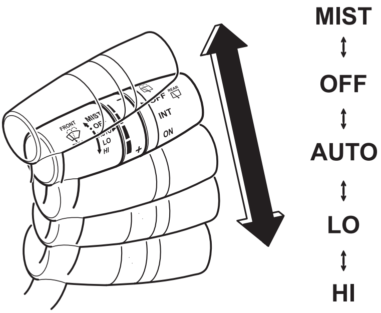
Switch Position	Wiper operation
MIST	Operation while pulling up lever
OFF	Stop
INT	Intermittent
LO	Low speed
HI	High speed

Variable-speed intermittent wipers

Set the lever to the intermittent position and choose the interval timing by rotating the ring.



With auto-wiper control

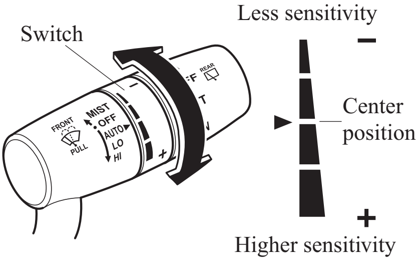

MIST
OFF
AUTO
LO
HI
FRONT
MIST
OFF
AUTO
LO
HI
REAR
OFF
INT
ON

Switch Position	Wiper operation
MIST	Operation while pulling up lever
OFF	Stop
AUTO	Auto control
LO	Low speed
HI	High speed

Auto-wiper control

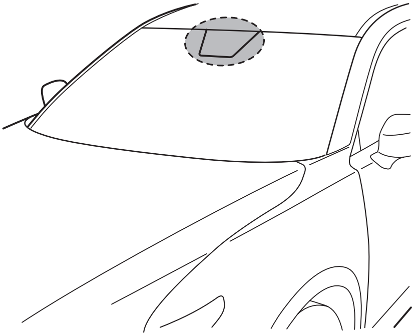
When the wiper lever is in the **AUTO** position, the rain sensor senses the amount of rainfall on the windshield and turns the wipers on or off automatically (off—intermittent—low speed—high speed).

The sensitivity of the rain sensor can be adjusted by turning the switch on the wiper lever.
From the center position (normal), rotate the switch upward for higher sensitivity (faster response) or rotate it downward for less sensitivity (slower response).


Switch
Less sensitivity
−
Center position
+
Higher sensitivity
FRONT
PULL
MIST
OFF
AUTO
LO
HI
REAR

CAUTION

- *Do not shade the rain sensor by adhering a sticker or a label on the windshield. Otherwise the rain sensor will not operate correctly.*



- *When the wiper lever is in the* **AUTO** *position and the ignition is switched ON, the wipers may move automatically in the following cases:*
  - *If the windshield above the rain sensor is touched or wiped with a cloth.*
  - *If the windshield is struck with a hand or other object from either outside or inside the vehicle.*

  Keep hands and scrapers clear of the windshield when the wiper lever is in the **AUTO** *position and the ignition is switched ON as fingers could be pinched or the wipers and wiper blades damaged when the wipers activate automatically. If you are going to clean the windshield, be sure the wipers are turned off completely (when it is most likely that the engine is left running) this is particularly important when clearing ice and snow.*

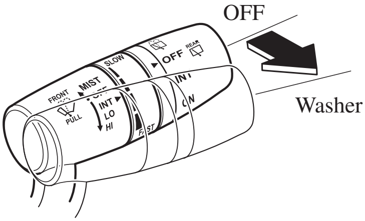
NOTE

- *Switching the auto-wiper lever from the* OFF *to the* **AUTO** *position while driving activates the windshield wipers once, after which they operate according to the rainfall amount.*
- *The auto-wiper control may not operate when the rain sensor temperature is about -10 °C (14 °F) or lower, or about 85 °C (185 °F) or higher.*
- *If the windshield is coated with water repellent, the rain sensor may not be able to sense the amount of rainfall correctly and the auto-wiper control may not operate properly.*
- *If dirt or foreign matter (such as ice or matter containing salt water) adheres to the windshield above the rain sensor, or if the windshield is iced, it could cause the wipers to move automatically. However, if the wipers cannot remove this ice, dirt or foreign matter, the auto-wiper control will stop operation. In this case, set the wiper lever to the low speed position or high speed position for manual operation, or remove the ice, dirt or foreign matter by hand to restore the auto-wiper operation.*
- *If the auto-wiper lever is left in the* **AUTO** *position, the wipers could operate automatically from the effect of strong light sources, electromagnetic waves, or infrared light because the rain sensor uses an optical sensor. It is recommended that the auto-wiper lever be switched to the* OFF *position other than when driving the vehicle under rainy conditions.*

- *If the headlight switch and the windshield wiper switch are in* **AUTO***, and the wipers are operated at low or high speed by the auto wiper control for several seconds, bad weather conditions are determined and the headlights may be turned on.*
- *The auto-wiper control functions can be turned off. Refer to Personalization Features on page 9-11.*

▼Windshield Washer

Pull the lever toward you and hold it to spray washer fluid.



NOTE

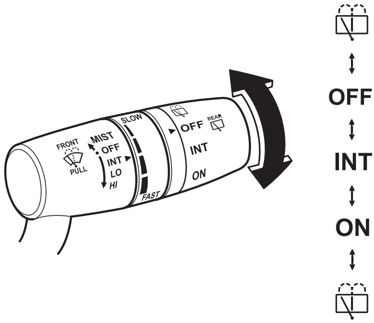
If the windshield washer is turned on when the windshield wipers are not operating, the windshield wipers operate a few times.

If the washer does not work, inspect the fluid level (page 6-31). If the fluid level is normal, consult an Authorized Mazda Dealer.

Rear Window Wiper and Washer

The ignition must be switched ON to use the wiper.

▼Rear Window Wiper



Turn the wiper on by turning the rear wiper/washer switch.

Switch Position	Wiper operation
OFF	Stop
INT	Intermittent
ON	Normal

▼Rear Window Washer

To spray washer fluid, turn the rear wiper/washer switch to either of the position. After the switch is released, the washer will stop.

If the washer does not work, inspect the fluid level (page 6-31). If the fluid level is normal and the washer still does not work, consult an Authorized Mazda Dealer.

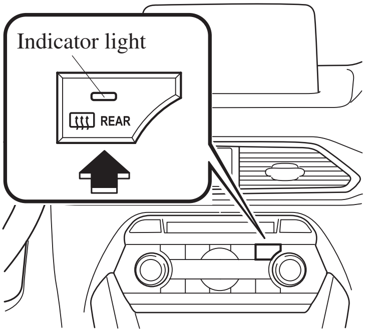
Rear Window Defogger

The rear window defogger clears fog from the rear window.

The ignition must be switched ON to use the defogger.

Press the switch to turn on the rear window defogger. The rear window defogger operates for about 15 minutes and then turns off automatically.
The indicator light illuminates when the defogger is operating.

To turn off the rear window defogger before the 15 minutes has elapsed, press the switch again.



CAUTION

Do not use sharp instruments or window cleaners with abrasives to clean the inside of the rear window surface. They may damage the defogger grid inside the window.

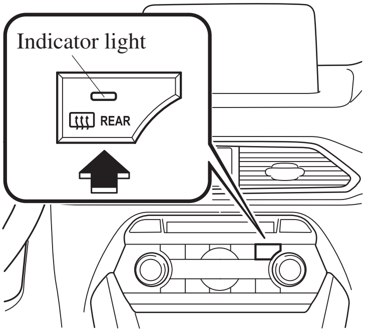
NOTE

This defogger is not designed for melting snow. If there is an accumulation of snow on the rear window, remove it before using the defogger.

▼Mirror Defogger*

The mirror defoggers defrost the outside mirrors.

The mirror defoggers operate in conjunction with the rear window defogger.
To turn on the mirror defoggers, switch the ignition ON and press the rear window defogger switch (page 4-60).



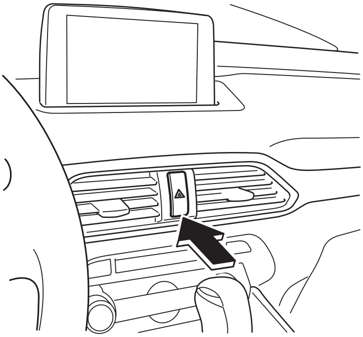
*Some models.

Horn

To sound the horn, press the 📯 mark on the steering wheel.

Hazard Warning Flasher

The hazard warning lights should always be used when you stop on or near a roadway in an emergency.



The hazard warning lights warn other drivers that your vehicle is a traffic hazard and that they must take extreme caution when near it.

⇦ ⇨

Depress the hazard warning flasher and all the turn signals will flash. The hazard warning indicator lights in the instrument cluster flash simultaneously.

NOTE

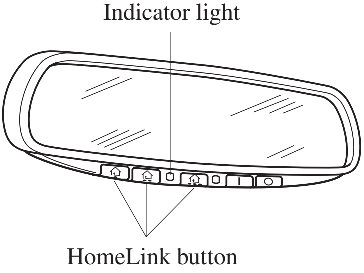
- *The turn signals do not work when the hazard warning lights are on.*
- *Check local regulations about the use of hazard warning lights while the vehicle is being towed to verify that it is not in violation of the law.*

HomeLink Wireless Control System*

NOTE

HomeLink and HomeLink house icon are registered trademarks of Gentex Corporation.

The HomeLink system replaces up to 3 hand-held transmitters with a single built-in component in the auto-dimming mirror. Pressing the HomeLink button on the auto-dimming mirror activates garage doors, gates and other devices surrounding your home.



⚠ WARNING

Do not use the HomeLink system with any garage door opener that lacks the safety stop and reverse feature:

> *Using the HomeLink system with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards is dangerous. (This includes garage doors manufactured before April 1, 1982.)*
>
> *Using these garage door openers can increase the risk of serious injury or death. For further information, contact HomeLink at 1-800-355-3515 or www.homelink.com or an Authorized Mazda Dealer.*

Always check the areas surrounding garage doors and gates for people or obstructions before programming or during operation of the HomeLink system:

> *Programming or operating the HomeLink system without verifying the safety of areas surrounding garage doors and gates is dangerous and could result in an unexpected accident and serious injury if someone were to be hit.*

NOTE

The programming will not be erased even if the battery is disconnected.

*Some models.

▼ Pre-programming the HomeLink System

NOTE

It is recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink for quicker training and accurate transmission of the radio-frequency signal.

- Verify that there is a remote control transmitter available for the device you would like to program.
- Disconnect the power to the device.

▼ Programming the HomeLink System

CAUTION

When programming a garage door opener or a gate, disconnect the power to these devices before performing programming. Continuous operation of the devices could damage the motor.

The HomeLink system provides 3 buttons which can be individually selected and programmed using the transmitters for current, on-market devices as follows:

1. Disconnect the power to the garage door opener or gate programmed to the hand-held transmitter.
2. Position the end of your hand-held transmitter 2.5—7.5 cm (1—3 inches) away from the HomeLink button you wish to program while keeping the indicator light in view.
3. Simultaneously press and hold both the chosen HomeLink and hand-held transmitter buttons. **Do not release the buttons until step 3 has been completed.**

NOTE

Some gate operators and garage door openers may require you to replace this Programming Step 2 with procedures noted in the "Gate Operator/Canadian Programming" section.

4. After the HomeLink indicator light changes from a slow to a rapidly blinking light, release both the HomeLink and hand-held transmitter buttons.

NOTE

*If the HomeLink indicator light does not change to a rapidly blinking light, contact HomeLink at **www.homelink.com** or call **1-800-355-3515** for assistance.*

5. Connect the power to the garage door opener or gate programmed to the hand-held transmitter.

6. Firmly press and hold the programmed HomeLink button for five seconds, and then release it. Perform this operation two times to activate the door or gate. If the door or gate does not activate, press and hold the just-trained HomeLink button and observe the indicator light.
   If the indicator light stays on constantly, programming is complete and your device should activate when the HomeLink button is pressed and released.

NOTE

To program the remaining two HomeLink buttons, begin with "Programming"— ***step 1***

   If the indicator light blinks **rapidly for two seconds and then turns to a constant light, continue with "Programming" steps 7—9** to complete the programming of a rolling code equipped device (most commonly a garage door opener).
7. At the garage door opener receiver (motor-head unit) in the garage, locate the "learn" or "smart" button. This can usually be found where the hanging antenna wire is attached to the motor-head unit.
8. Firmly press and release the "learn" or "smart" button. (The name and color of the button may vary by manufacturer.)

NOTE

Complete the programming within 30 seconds.

9. Return to the vehicle and firmly **press, hold for two seconds and release** the programmed HomeLink button. Repeat the "**press/hold/release**" sequence a second time, and, depending on the brand of the garage door opener (or other rolling code equipped device), repeat this sequence a third time to complete the programming process.

HomeLink should now activate your rolling code equipped device.

NOTE

To program the remaining two HomeLink buttons, begin with "Programming"— ***step 1***

For questions or comments, please contact HomeLink at **www.homelink.com** or **1-800-355-3515**.

▼Gate operator/Canadian Programming

Canadian radio-frequency laws require transmitter signals to “time-out” (or quit) after several seconds of transmission — which may not be long enough for HomeLink to pick up the signal during programming. Similar to this Canadian law, some U.S. gate operators are designed to “time-out” in the same manner.

If you live in Canada or you are having difficulties programming a gate operator by using the “Programming” procedures (regardless of where you live), **replace “Programming HomeLink” step 3** with the following:

NOTE

If programming a garage door opener or gate operator, it is advised to unplug the device during the “cycling” process to prevent possible overheating.

Continue to press and hold the HomeLink button while you **press and release — every two seconds** (“cycle”) your hand-held transmitter until the frequency signal has successfully been accepted by HomeLink. (The indicator light will flash slowly and then rapidly.)
Proceed with “Programming” step 4 to complete.

▼Operating the HomeLink System

Press the programmed HomeLink button to operate a programmed device. The code will continue being transmitted for a maximum of 20 seconds.

▼Reprogramming the HomeLink system

To program a device to HomeLink using a HomeLink button previously trained, follow these steps:

1. Press and hold the desired HomeLink button. **DO NOT** release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the HomeLink button, proceed with “Programming” - step 1.

▼Erasing Programmed HomeLink Buttons

To erase the existing programming from all three operating channels, press and hold the two outside buttons (⌂, ⌂) on the auto-dimming mirror until the HomeLink indicator light begins to flash after approximately 10 seconds.
Verify that the programming has been erased when you resell the vehicle.

Brake System

▼Foot Brake

This vehicle has power-assisted brakes that adjust automatically through normal use.

Should power-assist fail, you can stop by applying greater force than normal to the brake pedal. But the distance required to stop will be greater than usual.

⚠ WARNING

Do not coast with the engine stalled or turned off, find a safe place to stop:

Coasting with the engine stalled or turned off is dangerous. Braking will require more effort, and the brake's power-assist could be depleted if you pump the brake. This will cause longer stopping distances or even an accident.

Shift to a lower gear when going down steep hills:

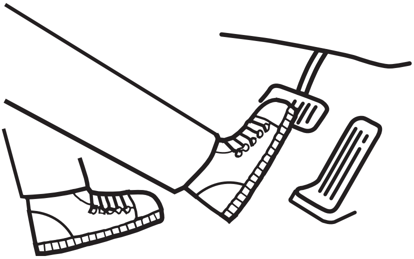
Driving with your foot continuously on the brake pedal or steadily applying the brakes for long distances is dangerous. This causes overheated brakes, resulting in longer stopping distances or even total brake failure. This could cause loss of vehicle control and a serious accident. Avoid continuous application of the brakes.

Dry off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal:

Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected.

⚠ CAUTION

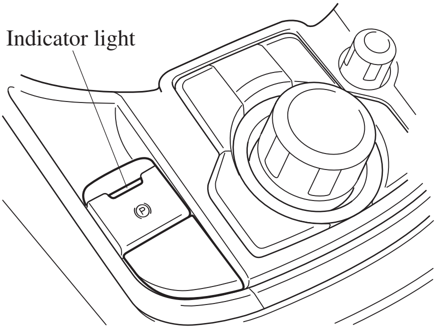
- *Do not drive with your foot held on the brake pedal. Doing so could result in the following:*
  - *The brake parts will wear out more quickly.*
  - *The brakes can overheat and adversely affect brake performance.*
- *Always depress the brake pedal with the right foot. Applying the brakes with the unaccustomed left foot could slow your reaction time to an emergency situation resulting in insufficient braking operation.*



- *Wear shoes appropriate for driving in order to avoid your shoe contacting the brake pedal when depressing the accelerator pedal.*

▼Electric Parking Brake

The electric parking brake equipment applies the parking brake using an electric motor. When the electric parking brake is applied, the electric parking brake switch indicator light turns on.



⚠ WARNING

Do not drive the vehicle with the electric parking brake applied:

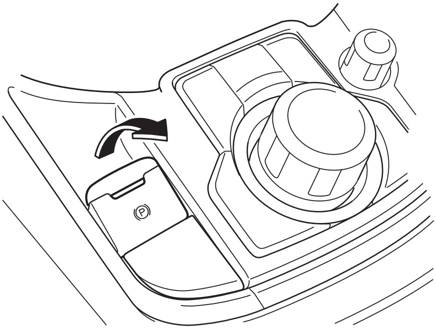
> *If the vehicle is driven with the parking brake applied, the brake parts may generate heat and the brake system may not operate, leading to an accident.*
>
> *Before driving, release the electric parking brake and verify that the brake system warning light is turned off.*

NOTE

- *The electric parking brake cannot be applied or released while the vehicle battery is dead.*
- *If the electric parking brake is repeatedly applied and released it may stop operating to prevent overheating of the motor. If this occurs, wait approx. 1 minute before operating the electric parking brake switch again.*
- *An operation sound occurs when applying or releasing the electric parking brake, however, this does not indicate a malfunction.*
- *If the electric parking brake is not used for long periods, an automatic inspection of the system is performed while the vehicle is parked. An operation sound can be heard, however, this does not indicate a problem.*
- *When the electric parking brake is applied and the ignition is switched OFF, an operation sound can be heard, however, this does not indicate a problem.*
- *The brake pedal may move while the electric parking brake is being applied or released, however, this does not indicate a problem.*
- *If the electric parking brake switch is continually pulled while driving the vehicle, the electric parking brake will be applied and the electric parking brake warning beep will be activated. When the switch is released, the electric parking brake is released and the beep stops.*
- *If the electric parking brake is applied with the ignition switched off or in ACC, the brake system warning light in the instrument cluster and the indicator light in the switch may turn on for 15 seconds.*
- *When running the vehicle through an automatic car wash, it may be necessary to switch the ignition off with the parking brake released depending on the type of automatic car wash.*

When applying the electric parking brake

The electric parking brake can be applied regardless of the ignition switch position. Securely depress the brake pedal and pull up the electric parking brake switch.
The electric parking brake is applied and the brake system warning light and the electric parking brake switch indicator light turn on.
Refer to Warning/Indicator Lights on page 4-31.

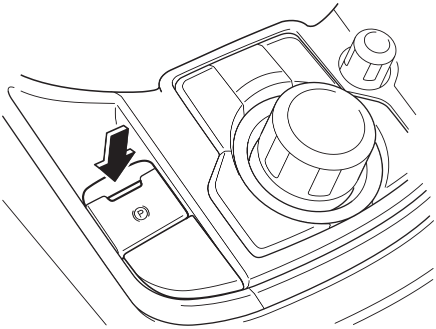


When releasing the electric parking brake

The electric parking brake can be released while the ignition is switched ON or the engine is running. When the electric parking brake is released, the brake system warning light and the electric parking brake switch indicator light turn off.

Electric parking brake manual release

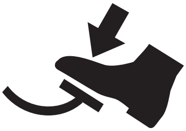
Securely depress the brake pedal and press down the electric parking brake switch.



Firmly depress the brake pedal and press the electric parking brake switch.
If the electric parking brake switch is pressed without depressing the brake pedal, the display or indicator light in the instrument cluster notifies the driver that the brake is not depressed.

DEP DEALER ePROCESS

(Type A instrument cluster)
A message is displayed on the multi-information display in the instrument cluster.
Refer to Message Indicated in Multi-information Display on page 7-44.
(Type B instrument cluster)
The brake pedal operation demand indicator light in the instrument cluster turns on.



Electric parking brake automatic release

If the accelerator pedal is depressed with the electric parking brake applied and all of the following conditions met, the parking brake is released automatically.

- The engine is running.
- The driver's door is closed.
- The driver's seat belt is fastened.
- Selector lever is in the D, M, or R position

NOTE

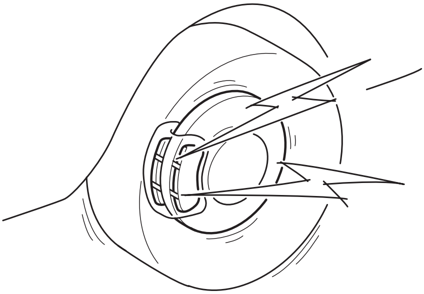
If something such as the driver's foot contacts the accelerator pedal with the engine running and the electric parking brake applied, the parking brake may be released automatically. If you do not intend to drive immediately, shift the selector lever to the P or N position.

▼Warning Light

The warning light turns on when the system has a malfunction.
Refer to Warning Indication/Warning Lights on page 4-32.

▼Brake Pad Wear Indicator

When the disc brake pads become worn, the built-in wear indicators contact the disc plates. This causes a screeching noise to warn that the pads should be replaced.



When you hear this noise, consult an Authorized Mazda Dealer as soon as possible.

⚠ WARNING

Do not drive with worn disc pads:

Driving with worn disc pads is dangerous. The brakes could fail and cause a serious accident. As soon as you hear a screeching noise consult an Authorized Mazda Dealer.

▼Brake Assist

During emergency braking situations when it is necessary to depress the brake pedal with greater force, the brake assist system provides braking assistance, thus enhancing braking performance.

When the brake pedal is depressed hard or depressed more quickly, the brakes apply more firmly.

NOTE

- *When the brake pedal is depressed hard or depressed more quickly, the pedal will feel softer but the brakes will apply more firmly. This is a normal effect of the brake assist operation and does not indicate a malfunction.*
- *When the brake pedal is depressed hard or depressed more quickly, a motor/pump operation noise may be heard. This is a normal effect of the brake assist and does not indicate a malfunction.*
- *The brake assist equipment does not supersede the functionality of the vehicle's main braking system.*

Hill Launch Assist (HLA)

Hill Launch Assist (HLA) is a function which assists the driver in accelerating from a stop while on a slope. When the driver releases the brake pedal and depresses the accelerator pedal while on a slope, the function prevents the vehicle from rolling. The braking force is maintained automatically after the brake pedal is released on a steep grade.
Hill Launch Assist (HLA) operates on a downward slope when the selector lever is in the reverse (R) position, and on an upward slope when the selector lever is in a forward gear.

⚠ WARNING

Do not rely completely on Hill Launch Assist (HLA):

Hill Launch Assist (HLA) is an auxiliary device for accelerating from a stop on a slope. The system only operates for about two seconds and therefore, relying only on the system, when accelerating from a stop is dangerous because the vehicle may move (roll) unexpectedly and cause an accident. The vehicle could roll depending on the vehicle's load or if it is towing something.
Always confirm the safety around the vehicle before starting to drive the vehicle.

NOTE

- *Hill Launch Assist (HLA) does not operate on a gentle slope. In addition, the gradient of the slope on which the system will operate changes depending on the vehicle's load.*
- *Hill Launch Assist (HLA) does not operate if the parking brake is applied, or if the vehicle has not stopped completely.*
- *While Hill Launch Assist (HLA) is operating, the brake pedal may feel stiff and vibrate, however, this does not indicate a malfunction.*
- *Hill Launch Assist (HLA) does not operate while the TCS/DSC indicator light is illuminated.*
  Refer to Warning/Indicator Lights on page 4-31.
- *Hill Launch Assist (HLA) does not turn off even if the TCS OFF switch is pressed to turn off the TCS.*

Antilock Brake System (ABS)

The ABS control unit continuously monitors the speed of each wheel. If one wheel is about to lock up, the ABS responds by automatically releasing and reapplying that wheel's brake.

The driver will feel a slight vibration in the brake pedal and may hear a chattering noise from the brake system. This is normal ABS system operation. Continue to depress the brake pedal without pumping the brakes.

The warning light turns on when the system has a malfunction.
Refer to Warning Indication/Warning Lights on page 4-32.

⚠ WARNING

Do not rely on ABS as a substitute for safe driving:

The ABS cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), driving on ice and snow, and hydroplaning (reduced tire friction and road contact because of water on the road surface). You can still have an accident.

NOTE

- *Braking distances may be longer on loose surfaces (snow or gravel, for example) which usually have a hard foundation. A vehicle with a normal braking system may require less distance to stop under these conditions because the tires will build up a wedge of surface layer when the wheels skid.*
- *The sound of the ABS operating may be heard when starting the engine or immediately after starting the vehicle, however, it does not indicate a malfunction.*

Traction Control System (TCS)

The Traction Control System (TCS) enhances traction and safety by controlling engine torque and braking. When the TCS detects driving wheel slippage, it lowers engine torque and operates the brakes to prevent loss of traction.

This means that on a slick surface, the engine adjusts automatically to provide optimum power to the drive wheels, limiting wheel spin and loss of traction.

The warning light turns on when the system has a malfunction.
Refer to Warning Indication/Warning Lights on page 4-32.

⚠ WARNING

Do not rely on the Traction Control System (TCS) as a substitute for safe driving:

> *The Traction Control System (TCS) cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), and hydroplaning (reduced tire friction and road contact because of water on the road surface). You can still have an accident.*

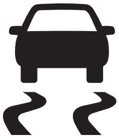
Use snow tires or tire chains and drive at reduced speeds when roads are covered with ice and/or snow:

> *Driving without proper traction devices on snow and/or ice-covered roads is dangerous. The Traction Control System (TCS) alone cannot provide adequate traction and you could still have an accident.*

NOTE

To turn off the TCS, press the TCS OFF switch (page 4-74).

▼TCS/DSC Indicator Light



This indicator light stays on for a few seconds when the ignition is switched ON. If the TCS, DSC or the Trailer Stability Assist (TSA)* is operating, the indicator light flashes.

If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

NOTE

- *In addition to the indicator light flashing, a slight lugging sound will come from the engine. This indicates that the TCS/DSC is operating properly.*
- *On slippery surfaces, such as fresh snow, it will be impossible to achieve high rpm when the TCS is on.*

*Some models.

▼TCS OFF Indicator Light

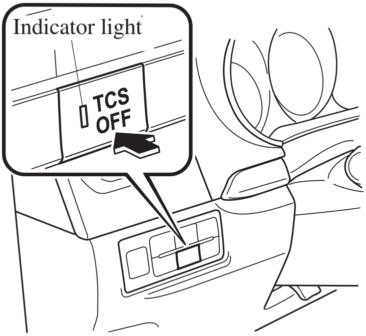
**TCS
OFF**

This indicator light stays on for a few seconds when the ignition is switched ON. It also illuminates when the TCS OFF switch is pressed and TCS is switched off. Refer to TCS OFF Switch on page 4-74.

If the light remains illuminated and the TCS is not switched off, take your vehicle to an Authorized Mazda Dealer. The DSC may have a malfunction.

▼TCS OFF Switch

Press the TCS OFF switch to turn off the TCS. The TCS OFF indicator light in the instrument cluster and TCS OFF switch indicator light turn on.



Press the switch again to turn the TCS back on. The TCS OFF indicator light and TCS OFF switch indicator light will turn off.

NOTE

- *When TCS is on and you attempt to free the vehicle when it is stuck, or drive it out of freshly fallen snow, the TCS (part of the DSC system) will activate. Depressing the accelerator will not increase engine power and freeing the vehicle may be difficult. When this happens, turn off the TCS.*
- *If the TCS is off when the engine is turned off, it automatically activates when the ignition is switched ON.*
- *Leaving the TCS on will provide the best traction.*
- *If the TCS OFF switch is pressed and held for 10 seconds or longer, the TCS can no longer be turned off even if the TCS OFF switch is pressed.*
  In this case, the TCS OFF switch will operate normally when the ignition is switched ON again after being switched OFF.

Dynamic Stability Control (DSC)

The Dynamic Stability Control (DSC) automatically controls braking and engine torque in conjunction with systems such as ABS and TCS to help control side slip when driving on slippery surfaces, or during sudden or evasive maneuvering, enhancing vehicle safety.

Refer to ABS (page 4-72) and TCS (page 4-73).

DSC operation is possible at speeds greater than 20 km/h (12 mph).

The warning light turns on when the system has a malfunction.
Refer to Warning Indication/Warning Lights on page 4-32.

⚠ WARNING

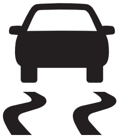
Do not rely on the Dynamic Stability Control as a substitute for safe driving:

> *The Dynamic Stability Control (DSC) cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), and hydroplaning (reduced tire friction and road contact because of water on the road surface). You can still have an accident.*

⚠ CAUTION

- *The DSC may not operate correctly unless the following are observed:*
  - *Use tires of the correct size specified for your Mazda on all four wheels.*
  - *Use tires of the same manufacturer, brand and tread pattern on all four wheels.*
  - *Do not mix worn tires.*
- *The DSC may not operate correctly when tire chains are used or a temporary spare tire is installed because the tire diameter changes.*

▼TCS/DSC Indicator Light



This indicator light stays on for a few seconds when the ignition is switched ON. If the TCS, DSC or the Trailer Stability Assist (TSA)* is operating, the indicator light flashes.

If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

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*Some models.

Trailer Stability Assist (TSA)

If the vehicle sways while being driven and towing a trailer, the Trailer Stability Assist (TSA) automatically controls braking and engine torque to suppress the swaying and enhance vehicle stability.

The Trailer Stability Assist (TSA) is operable at a vehicle speed of about 65 km/h (40 mph) or more.

When the Trailer Stability Assist (TSA) operates while driving the vehicle, the TCS/DSC indicator light flashes.

Refer to TCS/DSC Indicator Light on page 4-75.

WARNING

Do not rely solely on the Trailer Stability Assist (TSA)

Assured vehicle stability is limited even if the Trailer Stability Assist (TSA) is operating. Drive carefully to prevent accidents.

In particular, if the TCS/DSC indicator light is flashing, drive the vehicle carefully as it is in a less stable condition and could sway more easily. Drive with caution and in accordance with the road, vehicle and trailer conditions.

CAUTION

- *The Trailer Stability Assist (TSA) may not operate correctly unless the following are observed:*
  - *Use tires of the correct size specified for your Mazda on all four wheels.*
  - *Use tires of the same manufacturer, brand and tread pattern on all four wheels.*
  - *Do not mix worn tires.*
- *The Trailer Stability Assist (TSA) may not operate correctly when tire chains are used or a temporary spare tire is installed because the tire diameter changes.*

NOTE

- *The Trailer Stability Assist (TSA) uses the TCS/DSC functions. The Trailer Stability Assist (TSA) does not operate if there is a malfunction in the TCS/DSC (the TCS/DSC indicator light turns on).*
- *When the Trailer Stability Assist (TSA) is operating, the brake lights may turn on.*
- *For information regarding trailer towing, refer to Trailer Towing (U.S.A. and Canada) on page 3-58.*

Fuel Economy Monitor

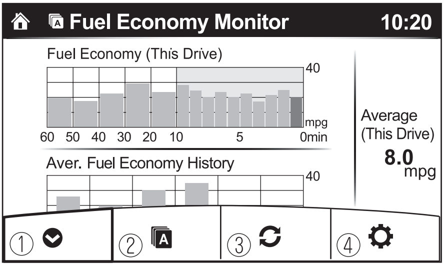
The Fuel Consumption information is displayed by operating each icon in the display. In addition, after completing a trip, the total energy efficiency to date is displayed in the ending display when the ending display is turned on.

1. Select the icon on the home screen to display the applications screen.
2. Select the “Fuel Economy Monitor”.
3. Operate the commander switch or touch the screen and display the menu.

NOTE

When the menu is displayed by touching the screen, the display is hidden automatically after 6 seconds.

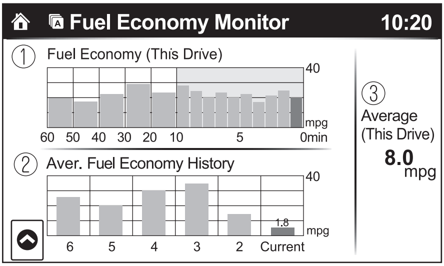
4. Select the icon in the menu and perform the operation. Each icon operates as follows:

Indication on display	Control status
 Fuel Economy Monitor 10:20 Fuel Economy (This Drive) 40 mpg 60 50 40 30 20 10 5 0min Average (This Drive) 8.0 mpg Aver. Fuel Economy History 40 ① ② ③ ④	① Hides the menu display.
	② Displays the application screen.
	③ Resets the fuel economy data.
	④ Displays the following setting screen. •Ending display on/off switching •On/off switching for function which synchronizes reset fuel economy data to trip meter (Trip A) (Type B instrument cluster only)

Fuel Economy Monitor

▼Fuel Consumption Display

Information regarding the fuel economy is displayed.

Indication on display	Control status
	① Displays the fuel economy for the past 60 minutes. •Displays the fuel economy every minute for the past 1 to 10 minutes. •Displays the fuel economy every 10 minutes for the past 10 to 60 minutes.
	② Displays the average fuel economy over the past 5 resets and after the current reset.
	③ Calculates the average fuel economy every minute after vehicle travel begins, and displays it.

Fuel Economy Monitor
10:20
① Fuel Economy (This Drive)
40
mpg
60 50 40 30 20 10 5 0min
② Aver. Fuel Economy History
40
1.8
mpg
6 5 4 3 2 Current
③ Average (This Drive)
8.0 mpg

NOTE

- *The fuel economy data can be reset by doing the following operation:*
  - *Press the reset switch from the menu screen.*
  - *When the function which synchronizes the fuel economy monitor and the trip meter is on, reset trip A of the trip meter.*
  - *Delete the average fuel economy information displayed in the trip computer.*
- *After resetting the fuel economy data, "-- -" is displayed while the average fuel economy is calculated.*

▼Ending Screen Display

If the ending display on the fuel economy monitor is on when the ignition is switched from ON to OFF, the information regarding the fuel economy is displayed.

Drive Selection

Drive selection is a system to switch the vehicle's drive mode. When the sport mode is selected, vehicle's response against accelerator operation is enhanced. This provides additional quick acceleration which may be needed to safely make maneuvers such as lane changes, merging onto freeways, or passing other vehicles.

⚠ CAUTION

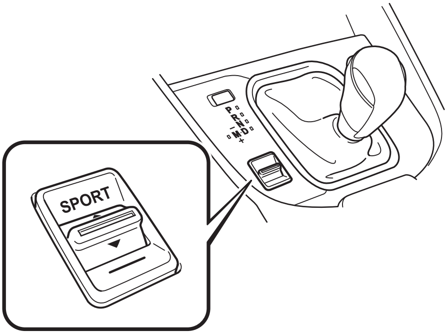
Do not use the sport mode when driving on slippery roads such as wet or snow-covered roads. It may cause tire slipping.

NOTE

- *When the sport mode is selected, driving at higher engine speeds increases and it may increase fuel consumption. Mazda recommends that you cancel the sport mode on normal driving.*
- *Drive mode cannot be switched in the following conditions:*
  - *ABS/TCS/DSC is operating*
  - *The Mazda Radar Cruise Control (MRCC) system/cruise control is operating.*
  - *Steering wheel is being operated abruptly*

▼Drive Selection Switch

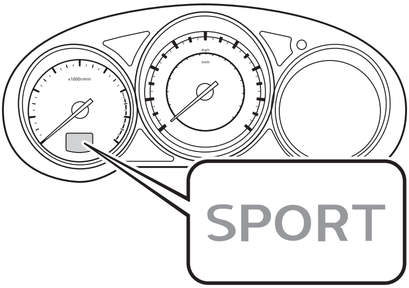
Press the drive selection switch forward (“SPORT”) to select the sport mode. Pull the drive selection switch back (“——”) to cancel the sport mode.



NOTE

- *When the ignition is switched off, the sport mode is canceled.*
- *Depending on the driving conditions when sport mode is selected, the vehicle may perform shift-down or slightly accelerate.*

▼Select Mode Indication



The light is illuminated while in SPORT mode.

NOTE

The indicator light flashes a few times to indicate that the mode cannot be switched to SPORT mode even if the drive select switch is pressed under the following conditions:

- *ABS/TCS/DSC is operating*
- *The Mazda Radar Cruise Control (MRCC) system/cruise control is operating.*
- *The vehicle is making a turn or driving on a curved road.*

i-ACTIV AWD Operation*

AWD provides excellent drivability on snow-covered and ice-packed roads, sand and mud, as well as on steep slopes and other slippery surfaces.
A system malfunction or operation conditions are indicated by a warning. Refer to Warning Indication/Warning Lights on page 4-32.

⚠ WARNING

Never spin a wheel that is off the ground:

Spinning a wheel that is off the ground as a result of the vehicle being stuck or in a ditch is dangerous. The drive assembly could be seriously damaged which could lead to an accident or could even lead to overheating, oil leakage, and a fire.

▼AWD Driving

⚠ WARNING

Avoid sharp turns, excessive speed and abrupt maneuvers when driving this vehicle:

Sharp turns, excessive speed and abrupt maneuvering of this vehicle is dangerous as it could result in the increased risk of loss of vehicle control, vehicle roll-over, personal injury or death.
This vehicle has a higher center of gravity. Vehicles with a higher center of gravity such as utility and AWD vehicles handle differently than vehicles with a lower center of gravity. Utility and AWD vehicles are not designed for cornering at high speeds any more than low profile sports cars are designed to perform satisfactorily under off-road conditions. In addition, utility vehicles have a significantly higher rollover rate than other types of vehicles.

Drive carefully when the vehicle is loaded by lowering vehicle speed and applying the brakes earlier:

Abrupt maneuvering and sudden braking when driving a loaded vehicle is dangerous as the driving behavior of a vehicle with a high center of gravity is different when it is loaded compared to when it is not, and could result in the loss of vehicle control and an accident.

i-ACTIV AWD

▼Tires and Tire Chains

The condition of the tires plays a large role in the performance of the vehicle. Moreover, to prevent adverse effects to the drive assembly, please note the following:

Tires

- When replacing tires, always replace all front and rear tires at the same time.
- All tires must be of the same size, manufacture, brand and tread pattern. Pay particular attention when equipping snow or other types of winter tires.
- Do not mix tread-worn tires with normal tires.
- Inspect tire inflation pressures at the specified periods adjust to the specified pressures, and initialize the tire pressure monitoring system. Refer to Tire Pressure Monitoring System Initialization on page 4-153.

NOTE

Check the tire inflation pressure label attached to driver's door frame for the correct tire inflation pressure.

- Make sure to equip the vehicle with genuine wheels of the specified size, on all wheels. With AWD, the system is calibrated for all four wheels being of the same dimensions.

Tire chains

- Install tire chains to the front tires.
- Do not use tire chains on the rear wheels.
- Do not drive the vehicle faster than 30 km/h (19 mph) with the tire chains installed.
- Do not drive the vehicle with tire chains on road conditions other than snow or ice.

▼Towing

If the vehicle requires towing, have it towed with all four wheels completely off the ground.
Refer to Towing Description on page 7-26.

DEP DEALER ePROCESS

Power Steering

- Power steering is only operable when the engine is running. If the engine is off or if the power steering system is inoperable, you can still steer, but it requires more physical effort.
  If the steering feels stiffer than usual during normal driving or the steering vibrates, consult an Authorized Mazda Dealer.
- The warning indication/warning light notifies the driver of system abnormalities and operation conditions. In addition, the buzzer may also activate depending on the system abnormality or operation condition.
  Refer to Warning Indication/Warning Lights on page 4-32.
  Refer to Power Steering Warning Buzzer on page 7-49.

⚠ CAUTION

Never hold the steering wheel to the extreme left or right for more than 5 seconds with the engine running. This could damage the power steering system.

i-ACTIVSENSE*

i-ACTIVSENSE is a collective term covering a series of advanced safety and driver support systems which make use of a Forward Sensing Camera (FSC) and radar sensors. These systems consist of active safety and pre-crash safety systems.
These systems are designed to assist the driver in safer driving by reducing the load on the driver and helping to avert collisions or reduce their severity. However, because each system has its limitations, always drive carefully and do not rely solely on the systems.

▼Active Safety Technology

Active Safety Technology supports safer driving by helping the driver to recognize potential hazards and avert accidents.

Driver awareness support systems

Nighttime visibility

Adaptive Front Lighting System (AFS)........4-87
High Beam Control System (HBC)........4-88

Rear side detection

Blind Spot Monitoring (BSM)........4-91

Inter-vehicle distance recognition

Distance Recognition Support System (DRSS)........4-97

Rear obstruction detection when leaving a parking space

Rear Cross Traffic Alert (RCTA)........4-101

Driver support systems

Inter-vehicle distance

Mazda Radar Cruise Control (MRCC)........4-105

Lane departure

Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)........4-116

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*Some models.

▼Pre-Crash Safety Technology

Pre-crash safety technology is designed to assist the driver in averting collisions or reduce their severity in situations where they cannot be avoided.

Collision damage reduction in low vehicle speed range

Forward driving

Smart City Brake Support (SCBS) 4-128

Collision damage reduction in medium/high speed range

Smart Brake Support (SBS) 4-133

▼Camera and Sensors

Forward sensing camera (FSC)

The Forward Sensing Camera (FSC) determines the conditions ahead of the vehicle while traveling at night and detects traffic lanes. The following systems also use the Forward Sensing Camera (FSC).

- High Beam Control system (HBC)
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)
- Smart Brake Support (SBS)

The Forward Sensing Camera (FSC) is installed at the top of the windshield near the rearview mirror.
Refer to Forward Sensing Camera (FSC) on page 4-136.

Radar sensor (front)

The radar sensor (front) functions by detecting the radio waves reflected off a vehicle ahead sent from the radar sensor. The following systems also use the radar sensor (front).

- Mazda Radar Cruise Control (MRCC)
- Distance Recognition Support System (DRSS)
- Smart Brake Support (SBS)

The radar sensor (front) is mounted behind the radiator grille.
Refer to Radar Sensor (Front) on page 4-139.

Laser sensor (front)

The laser sensor (front) emits a near-infrared laser beam and receives the beam reflected off the reflective surface of a vehicle in front, and the detected beam is then used for measurement. The following systems also use the laser sensor (front).

- Smart City Brake Support (SCBS)
- Smart Brake Support (SBS)

The laser sensor (front) is installed at the top of the windshield near the rearview mirror.
Refer to Laser Sensor (Front) on page 4-142.

Radar sensors (rear)

The radar sensors (rear) function by detecting the radio waves reflected off a vehicle approaching from the rear or an obstruction sent from the radar sensors. The following systems also use the radar sensors (rear).

- Blind Spot Monitoring (BSM)
- Rear Cross Traffic Alert (RCTA)

The radar sensors (rear) are installed inside the rear bumper, one each on the left and right sides.
Refer to Radar Sensors (Rear) on page 4-144.

DEP DEALER ePROCESS

Adaptive Front Lighting System (AFS)*

The adaptive front lighting system (AFS) automatically adjusts the headlight beams to the left or right in conjunction with the operation of the steering wheel after the headlights have been turned on.
A system malfunction or operation conditions are indicated by a warning.
Refer to Warning/Indicator Lights on page 4-31.

NOTE

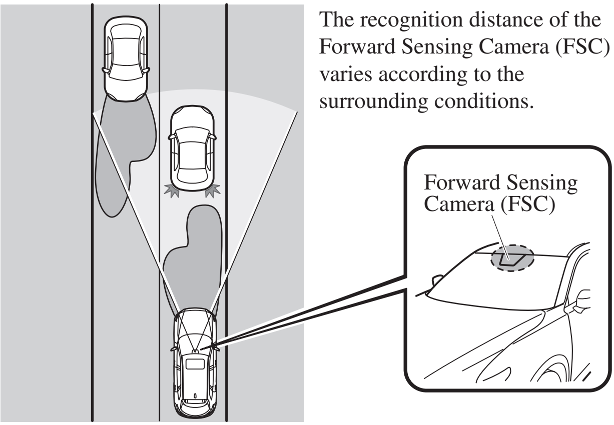
The Adaptive Front Lighting System (AFS) function can be switched to operable/inoperable using the personalization function.
Refer to Personalization Features on page 9-11.

*Some models.

High Beam Control System (HBC)*

The High Beam Control System (HBC) determines the conditions in front of the vehicle using the Forward Sensing Camera (FSC) while driving in darkness to automatically switch the headlights between high and low beams.
Refer to Warning/Indicator Lights on page 4-31.
While driving the vehicle at a speed of about 30 km/h (19 mph) or more, the headlights are switched to high beams when there are no vehicles ahead or approaching in the opposite direction.
The system switches the headlights to low beams when one of the following occurs:

- The system detects a vehicle or the headlights/lights of a vehicle approaching in the opposite direction.
- The vehicle is driven on roads lined with streetlamps or on roads in well-lit cities and towns.
- The vehicle is driven at less than about 20 km/h (12 mph).


The recognition distance of the Forward Sensing Camera (FSC) varies according to the surrounding conditions.
Forward Sensing Camera (FSC)

The warning light flashes when the system has a malfunction.
Refer to Warning Indication/Warning Lights on page 4-32.

CAUTION

- *Do not adjust the vehicle height, modify the headlight units, or remove the camera, otherwise the system will not operate normally.*
- *Do not rely excessively on the High Beam Control System (HBC) and drive the vehicle while paying sufficient attention to safety. Switch the headlights between the high beams and low beams manually if necessary.*

DEP DEALER ePROCESS

*Some models.

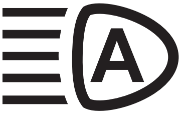
NOTE

The timing in which the system switches the headlights changes under the following conditions. If the system does not switch the headlights appropriately, manually switch between high and low beams according to the visibility as well as road and traffic conditions.

- *When there are sources of light in the area such as street lamps, illuminated signboards, and traffic signals.*
- *When there are reflective objects in the surrounding area such as reflective plates and signs.*
- *When visibility is reduced under rain, snow and foggy conditions.*
- *When driving on roads with sharp turn or hilly terrain.*
- *When the headlights/rear lamps of vehicles in front of you or in the opposite lane are dim or not illuminated.*
- *When there is sufficient darkness such as at dawn or dusk.*
- *When the luggage compartment is loaded with heavy objects or the rear passenger seats are occupied.*
- *When visibility is reduced due to a vehicle in front of you spraying water from its tires onto your windshield.*

▼To Operate the System

The High Beam Control System (HBC) operates to switch the headlights automatically between high and low beams after the ignition is switched ON and the headlight switch is in the AUTO and high beam position.
The High Beam Control System (HBC) determines that it is dark based on the brightness of the surrounding area. At the same time, the High Beam Control System (HBC) indicator light (green) in the instrument cluster illuminates.



NOTE

- *When the vehicle speed is about 30 km/h (19 mph) or more, the headlights automatically switch to high beams when there are no vehicles ahead or approaching in the opposite direction.*
  When the vehicle speed is less than about 20 km/h (12 mph), the High Beam Control System (HBC) switches the headlights to low beams.
- *The low beams may not switch to high beams when cornering.*
- *Operation of the High Beam Control System (HBC) function can be disabled.*
  Refer to Personalization Features on page 9-11.

▼Manual Switching

Switching to low beams

Shift the lever to the low beam position.
The High Beam Control System (HBC) indicator light (green) turns off.

Switching to high beams

Turn the headlight switch to the ≣D position.
The High Beam Control System (HBC) indicator light (green) turns off and the ≣D is illuminated.

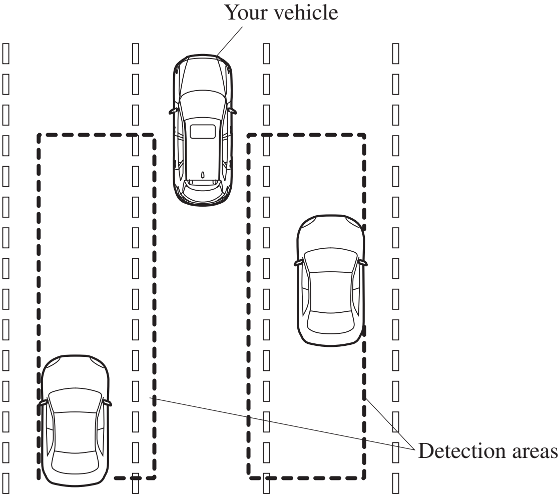
Blind Spot Monitoring (BSM)*

The Blind Spot Monitoring (BSM) is designed to assist the driver in checking the area to the rear of the vehicle on both sides during lane changes by notifying the driver of the presence of vehicles approaching from the rear in an adjacent lane.

The Blind Spot Monitoring (BSM) detects vehicles approaching from the rear while traveling in the forward direction at a speed of 10 km/h (6.3 mph) or faster and notifies the driver by turning on the Blind Spot Monitoring (BSM) warning indicator light and displaying the vehicle detection screen (vehicles with multi-information display and active driving display).

If the turn signal lever is operated to signal a turn in the direction in which the Blind Spot Monitoring (BSM) warning indicator light is illuminated while the approaching vehicle is detected, the Blind Spot Monitoring (BSM) notifies the driver of possible danger by turning on the Blind Spot Monitoring (BSM) warning indicator light, and by activating the warning sound and the warning screen indicator display (vehicles with multi-information display and active driving display).

The detection area on this system covers the driving lanes on both sides of the vehicle and from the rear part of the front doors to about 50 m (164 ft) behind the vehicle.



⚠ WARNING

Always check the surrounding area visually before making an actual lane change:

> *The system is only designed to assist you in checking for vehicles at your rear when making a lane change. Due to certain limitations with the operation of this system, the Blind Spot Monitoring (BSM) warning indicator light, the warning sound and the warning screen indicator display may not activate or they might be delayed even though a vehicle is in an adjacent driving lane. Always make it your responsibility as a driver to check the rear.*

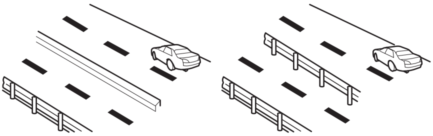
---

*Some models.

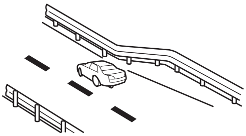
NOTE

- *The Blind Spot Monitoring (BSM) will operate when all of the following conditions are met:*
  - *The ignition is switched ON.*
  - *The Blind Spot Monitoring (BSM) OFF switch is pressed and the BSM OFF switch indicator light is turned off.*
  - *The vehicle speed is about 10 km/h (6.3 mph) or faster.*
- *The Blind Spot Monitoring (BSM) will not operate under the following circumstances.*
  - *The vehicle speed falls below about 10 km/h (6.3 mph) even though the Blind Spot Monitoring (BSM) OFF switch indicator light is turned off.*
  - *The selector lever is shifted to reverse (R) and the vehicle is reversing.*
- *In the following cases, the Blind Spot Monitoring (BSM) warning indication/warning light turns on and operation of the system is stopped. If the Blind Spot Monitoring (BSM) warning indication/warning light remains illuminated, have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.*
  - *Some problem with the system including the Blind Spot Monitoring (BSM) warning indicator lights is detected.*
  - *A large deviation in the installation position of a radar sensor (rear) on the vehicle has occurred.*
  - *There is a large accumulation of snow or ice on the rear bumper near a radar sensor (rear). Remove any snow, ice or mud on the rear bumper.*
  - *Driving on snow-covered roads for long periods.*
  - *The temperature near the radar sensors (rear) becomes extremely hot due to driving for long periods on slopes during the summer.*
  - *The battery voltage has decreased.*
- *Under the following conditions, the radar sensors (rear) cannot detect target objects or it may be difficult to detect them.*
  - *A vehicle is in the detection area at the rear in an adjacent driving lane but it does not approach. The Blind Spot Monitoring (BSM) determines the condition based on radar detection data.*
  - *A vehicle is traveling alongside your vehicle at nearly the same speed for an extended period of time.*
  - *Vehicles approaching in the opposite direction.*
  - *A vehicle in an adjacent driving lane is attempting to pass your vehicle.*
  - *A vehicle is in an adjacent lane on a road with extremely wide driving lanes. The detection area of the radar sensors (rear) is set at the road width of expressways.*

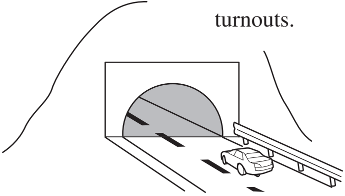
- *In the following case, the flashing of the Blind Spot Monitoring (BSM) warning indicator light, and the activation of the warning sound and the warning screen indicator display may not occur or they may be delayed.*
    - *A vehicle makes a lane change from a driving lane two lanes over to an adjacent lane.*
    - *Driving on steep slopes.*
    - *Crossing the summit of a hill or mountain pass.*
    - *The turning radius is small (making a sharp turn, turning at intersections).*
    - *When there is a difference in the height between your driving lane and the adjacent lane.*
    - *Directly after pressing the Blind Spot Monitoring (BSM) OFF switch and the system becomes operable.*
- *If the road width is extremely narrow, vehicles two lanes over may be detected. The detection area of the radar sensors (rear) is set according to the road width of expressways.*
- *The Blind Spot Monitoring (BSM) warning indicator light may turn on and the vehicle detection screen may be displayed in the display in reaction to stationary objects (guardrails, tunnels, sidewalls, and parked vehicles) on the road or the roadside.*

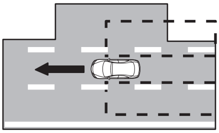


Objects such as guardrails and concrete walls running alongside the vehicle.



Places where the width between guardrails or walls on each side of the vehicle narrows.





The walls at the entrance and exits of tunnels, turnouts.

- *A Blind Spot Monitoring (BSM) warning indicator light may flash or the warning beep may be activated several times when making a turn at a city intersection.*
- *Turn off the Blind Spot Monitoring (BSM) while pulling a trailer or while an accessory such as a bicycle carrier is installed to the rear of the vehicle. Otherwise, the radar's radio waves will be blocked causing the system to not operate normally.*
- *In the following cases, it may be difficult to view the illumination/flashing of the Blind Spot Monitoring (BSM) warning indicator lights equipped on the door mirrors.*
    - *Snow or ice is adhering to the door mirrors.*
    - *The front door glass is fogged or covered in snow, frost or dirt.*

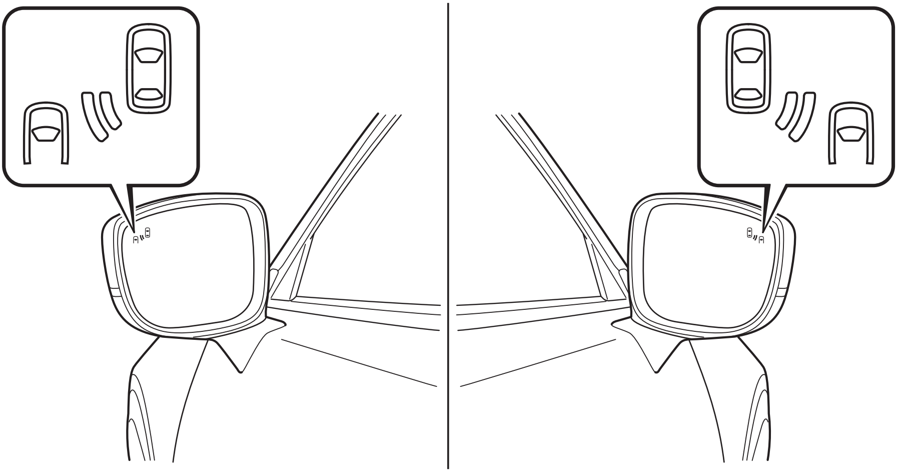
- *The radar sensors (rear) of the Blind Spot Monitoring (BSM) may be regulated under the radio wave related laws of the country where the vehicle is driven. The sensors in this system are approved for use in the U.S.A. (including territories), Canada, and Mexico. If a vehicle with a Blind Spot Monitoring (BSM) is driven in a country other than the U.S.A., Canada, or Mexico, the system has to be turned off using the Blind Spot Monitoring (BSM) OFF switch.*
- *The system switches to the Rear Cross Traffic Alert function when the selector lever is shifted to the reverse (R) position.*
  Refer to Rear Cross Traffic Alert (RCTA) on page 4-101.

▼Blind Spot Monitoring (BSM) Warning Indicator Light/Display Indicator/ Blind Spot Monitoring (BSM) Warning Beep

The Blind Spot Monitoring (BSM) or Rear Cross Traffic Alert (RCTA) system notifies the driver of the presence of vehicles in adjacent lanes or at the rear of the vehicle using the Blind Spot Monitoring (BSM) warning indicator light, the warning sound and the display indicator (vehicles with multi-information display and active driving display) while the systems are operational.

Blind Spot Monitoring (BSM) warning indicator lights

The Blind Spot Monitoring (BSM) warning indicator lights are equipped on the left and right door mirrors. The warning indicator lights turn on when a vehicle approaching from the rear in an adjacent lane is detected.



When the ignition is switched ON, the warning indicator light turns on momentarily and then turns off after a few seconds.

Forward driving (Blind Spot Monitoring (BSM) operation)

The Blind Spot Monitoring (BSM) detects vehicles approaching from the rear and turns on the Blind Spot Monitoring (BSM) warning indicator lights equipped on the door mirrors according to the conditions. Additionally, while a Blind Spot Monitoring (BSM) warning indicator light is illuminated, if the turn signal lever is operated to signal a turn in the direction in which the Blind Spot Monitoring (BSM) warning indicator light is illuminated, the Blind Spot Monitoring (BSM) warning indicator light flashes.

Reverse driving (Rear Cross Traffic Alert (RCTA) system operation)

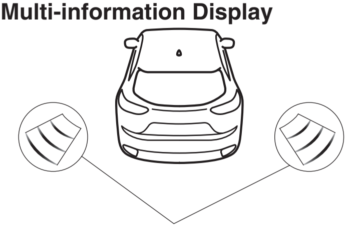
The Rear Cross Traffic Alert (RCTA) system detects vehicles approaching from the left and right of your vehicle and flashes the Blind Spot Monitoring (BSM) warning indicator lights.

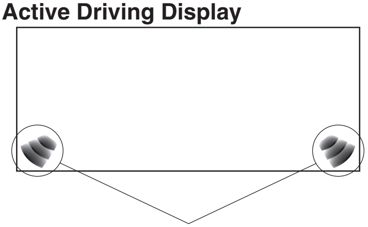
Function for cancelling illumination dimmer

If the Blind Spot Monitoring (BSM) warning indicator lights turn on when the parking lights are turned on, the brightness of the Blind Spot Monitoring (BSM) warning indicator lights is dimmed.
If the Blind Spot Monitoring (BSM) warning indicator lights are difficult to see due to glare from surrounding brightness when traveling on snow-covered roads or under foggy conditions, press the dimmer cancellation button to cancel the dimmer and increase the brightness of Blind Spot Monitoring (BSM) warning indicator lights when they turn on.
Refer to Dashboard Illumination on page 4-17.

Display indicator (Vehicles with multi-information display and active driving display)

The detected approaching vehicle and warning are displayed in the multi-information display and active driving display when the vehicle is moving forward (Blind Spot Monitoring (BSM) operational).



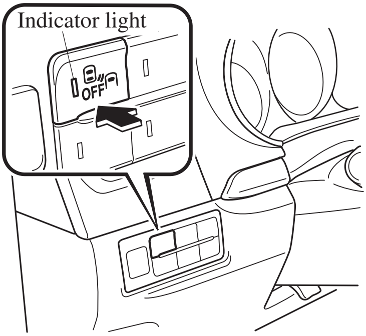


The detected direction is displayed with a detection indicator (white) when an approaching vehicle is detected. In addition, if the turn signal lever is operated to signal a lane change while the vehicle is detected, the display changes the color (amber) of the warning indicator.

Blind Spot Monitoring (BSM) warning beep

The Blind Spot Monitoring (BSM) warning beep is activated simultaneously with the flashing of a Blind Spot Monitoring (BSM) warning indicator light.

▼Blind Spot Monitoring (BSM) OFF Switch



When the Blind Spot Monitoring (BSM) OFF switch is pressed, the Blind Spot Monitoring (BSM) and Rear Cross Traffic Alert (RCTA) systems are turned off and the Blind Spot Monitoring (BSM) OFF switch indicator light turns on.
If the switch is pressed again, the Blind Spot Monitoring (BSM) and Rear Cross Traffic Alert (RCTA) systems become operable and the Blind Spot Monitoring (BSM) OFF switch indicator light turns off.

NOTE

- *When the ignition is switched off, the condition before the system was turned off is maintained. For example, if the ignition is switched OFF while the Blind Spot Monitoring (BSM) and Rear Cross Traffic Alert (RCTA) systems are operational, the Blind Spot Monitoring (BSM) and Rear Cross Traffic Alert (RCTA) systems remain operational the next time the ignition is switched ON.*
- *The Blind Spot Monitoring (BSM) and Rear Cross Traffic Alert (RCTA) systems are turned off when the battery is disconnected such as when the battery terminals or fuses have been removed and re-installed. To turn the Blind Spot Monitoring (BSM) and Rear Cross Traffic Alert (RCTA) systems back on, press the Blind Spot Monitoring (BSM) OFF switch.*

Distance Recognition Support System (DRSS)*

The Distance Recognition Support System (DRSS) measures the distance between your vehicle and a vehicle ahead using a radar sensor (front) while the vehicle speed is 30 km/h or faster (19 mph or faster), and indicates a recommended distance to maintain between the vehicles. Furthermore, if your vehicle approaches a vehicle ahead more closely than the appropriate distance to maintain between the vehicles according to the vehicle speed, the area between the vehicle-ahead indication and the vehicle indication in the multi-information display flashes in white to advise the driver to keep a safer distance from the vehicle ahead.

⚠ WARNING

Do not rely completely on the Distance Recognition Support System (DRSS) and always drive carefully:

> *The Distance Recognition Support System (DRSS) provides advice for safer driving and notifies the driver of a recommended, safer distance to maintain with a vehicle ahead. The ability to detect a vehicle ahead is limited depending on the type of vehicle ahead, the weather conditions, and the traffic conditions. Therefore, if the accelerator and brake pedals are not operated correctly it could lead to an accident. Always verify the safety of the surrounding area and depress the brake pedal or accelerator pedal while keeping a safer distance from vehicles ahead or on-coming vehicles.*

NOTE

- *The Distance Recognition Support System (DRSS) operates when all of the following conditions are met:*
  - *The ignition is switched ON.*
  - *The Distance Recognition Support System (DRSS) is on.*
  - *The selector lever is in a position other than reverse (R).*
  - *The vehicle speed is 30 km/h or faster (19 mph or faster).*
- *The objects which activate the system are 4-wheeled vehicles.*
- *The Distance Recognition Support System (DRSS) may also operate in the presence of motorcycles and bicycles.*
- *The Distance Recognition Support System (DRSS) may not operate normally under the following conditions:*
  - *The Dynamic Stability Control (DSC) has a malfunction.*
  - *The vehicle ahead is traveling at an extremely slow speed.*
- *The system does not operate with the following objects:*
  - *Vehicles approaching in the opposite direction.*
  - *Stationary objects (stopped vehicles, obstructions)*

*Some models.

▼Indication on Display

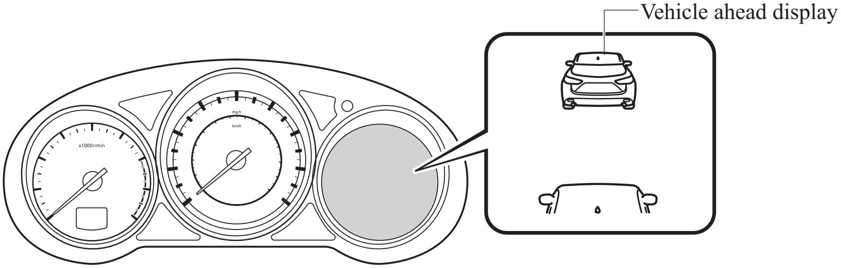
The Distance Recognition Support System (DRSS) operation status is displayed in the multi-information display.

Problems are indicated in the center display. If there is a problem, take appropriate action according to the displayed message.

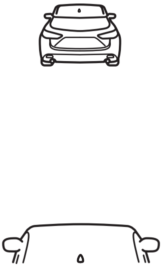
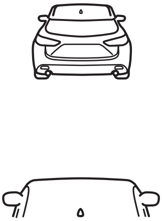
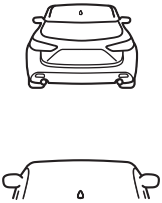
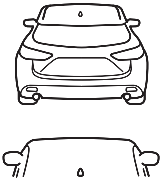
Refer to Warning/Indicator Lights on page 4-31.

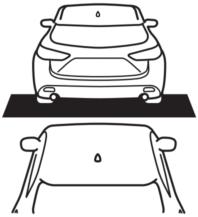
NOTE

- *When the ignition is switched off, the operation status before the system was turned off is maintained. For example, if the ignition is switched off with the Distance Recognition Support System (DRSS) operable, the system will be operable when the ignition is switched ON the next time.*
- *The Distance Recognition Support System (DRSS) can be turned on/off and the system's sensitivity can be changed.*
  Refer to Personalization Features on page 9-11.



Distance-between-vehicles guidelines[*1]

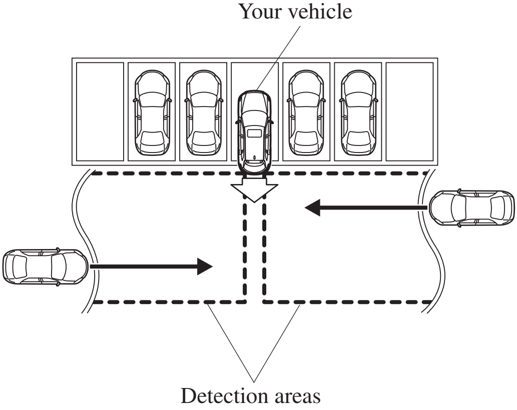
Indication on display	Distance between vehicles guidelines (During travel at about 40km/h (25 mph))	Distance between vehicles guidelines (During travel at about 80km/h (50 mph))
	About 25 m (82 ft)	About 50 m (164 ft)
	About 20 m (66 ft)	About 40 m (131 ft)
	About 17 m (56 ft)	About 30 m (98 ft)
	About 14 m (46 ft)	About 20 m (66 ft)

Indication on display	Distance between vehicles guidelines (During travel at about 40km/h (25 mph))	Distance between vehicles guidelines (During travel at about 80km/h (50 mph))
 (Flashes in white*2)	About 10 m (32 ft) or less	About 20 m (66 ft) or less

*1 The distance between vehicles differs depending on vehicle speed.
*2 Indication when the distance setting for notifying the driver that the vehicle approaches a vehicle ahead is Near.

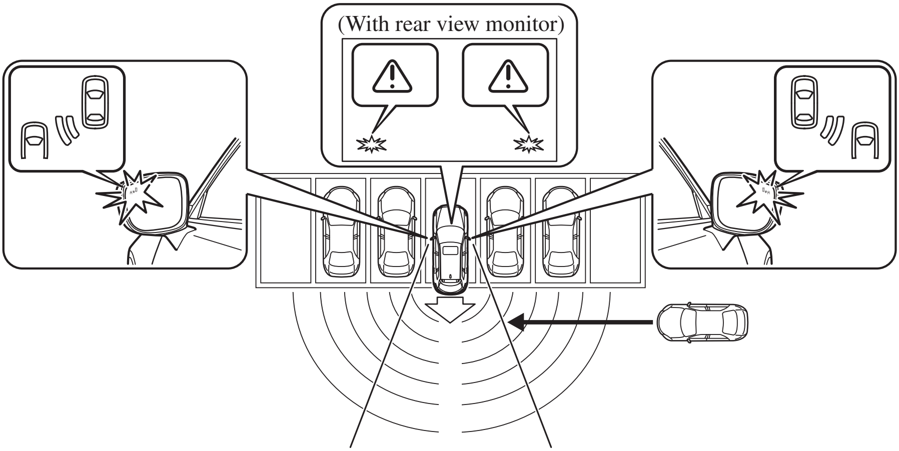
Rear Cross Traffic Alert (RCTA)*

The Rear Cross Traffic Alert (RCTA) system is designed to assist the driver in checking the area to the rear of the vehicle on both sides while the vehicle is reversing by alerting the driver to the presence of vehicles approaching the rear of the vehicle.
The Rear Cross Traffic Alert (RCTA) system detects vehicles approaching from the left and right sides of the vehicle while the vehicle is being reversed out of a parking space, and notifies the driver of possible danger using the Blind Spot Monitoring (BSM) warning indicator lights and the warning buzzer.



Rear Cross Traffic Alert (RCTA) operation

1. The Rear Cross Traffic Alert (RCTA) system operates when the selector lever is shifted to the reverse (R) position.
2. If there is the possibility of a collision with an approaching vehicle, the Blind Spot Monitoring (BSM) warning indicator lights flashes and the warning beep is activated simultaneously.
   (With rear view monitor)
   The Rear Cross Traffic Alert (RCTA) warning indication in the rearview monitor also synchronizes with the Blind Spot Monitoring (BSM) warning indicator light on the door mirrors.



⚠ WARNING

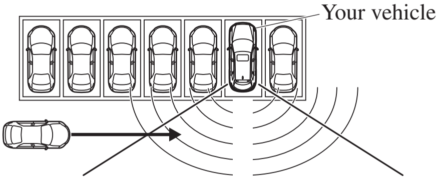
Always check the surrounding area visually before actually putting the vehicle in reverse:

> *The system is only designed to assist you in checking for vehicles at the rear when putting the vehicle in reverse. Due to certain limitations with the operation of this system, the Blind Spot Monitoring (BSM) warning indicator lights may not flash or it might be delayed even though a vehicle is behind your vehicle. Always make it your responsibility as a driver to check the rear.*

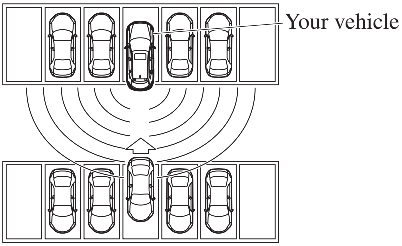
NOTE

- *In the following cases, the Blind Spot Monitoring (BSM) warning indication/warning light turns on and operation of the system is stopped. If the Blind Spot Monitoring (BSM) warning indication/warning light remains illuminated, have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.*
  - *Some problem with the system including the Blind Spot Monitoring (BSM) warning indicator lights has occurred.*
  - *A large deviation in the installation position of a radar sensor (rear) on the vehicle has occurred.*
  - *There is a large accumulation of snow or ice on the rear bumper near a radar sensor (rear).*
  - *Driving on snow-covered roads for long periods.*
  - *The temperature near the radar sensors becomes extremely hot due to driving for long periods on slopes during the summer.*
  - *The battery voltage has decreased.*

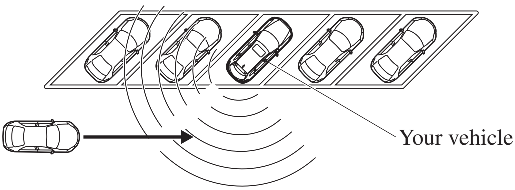
- *Under the following conditions, the radar sensors (rear) cannot detect target objects or it may be difficult to detect them.*
  - *The vehicle speed when reversing is about 15 km/h (9 mph) or faster.*
  - *The radar sensor (rear) detection area is obstructed by a nearby wall or parked vehicle. (Reverse the vehicle to a position where the radar sensor detection area is no longer obstructed.)*



  - *A vehicle is approaching directly from the rear of your vehicle.*



  - *The vehicle is parked on a slant.*



  - *Directly after pressing the Blind Spot Monitoring (BSM) OFF switch and the system becomes operable.*
- *In the following cases, it may be difficult to view the illumination/flashing of the Blind Spot Monitoring (BSM) warning indicator lights equipped on the door mirrors.*
  - *Snow or ice adheres to the door mirrors.*
  - *The front door glass is fogged or covered in snow, frost or dirt.*
- *Turn off the Rear Cross Traffic Alert (RCTA) system while pulling a trailer or while an accessory such as a bicycle carrier is installed to the rear of the vehicle. Otherwise, the radio waves emitted by the radar will be blocked causing the system to not operate normally.*

Mazda Radar Cruise Control (MRCC)*

The Mazda Radar Cruise Control (MRCC) system is designed to maintain headway control*1 according to the vehicle speed using a radar sensor (front) to detect the distance to a vehicle ahead, and by presetting the vehicle speed between 30 km/h (19 mph) and 145 km/h (90 mph), the driver is freed from having to constantly use the accelerator or brake pedals.

*1 Headway Control: Control of the distance between your vehicle and the vehicle ahead detected by the Mazda Radar Cruise Control (MRCC) system.

Additionally, if your vehicle starts closing in on the vehicle ahead because, for example, the vehicle ahead brakes suddenly, a warning sound and a warning indication in the display are activated simultaneously to alert you to maintain a sufficient distance between the vehicles. Use the Mazda Radar Cruise Control (MRCC) system on expressways and other highways which do not require a lot of repeated acceleration and deceleration.

*Some models.

⚠ WARNING

Do not rely completely on the Mazda Radar Cruise Control (MRCC) system and always drive carefully:

The Mazda Radar Cruise Control (MRCC) system is designed to reduce load on the driver, and although it maintains a constant vehicle speed, or specifically, it maintains a constant distance between your vehicle and the detected vehicle ahead according to the vehicle speed, the system has detection limitations depending on the type of vehicle ahead and its conditions, the weather conditions, and the road conditions. Additionally, the system may be unable to decelerate sufficiently to avoid hitting the vehicle ahead if the vehicle ahead applies the brakes suddenly or another vehicle cuts into the driving lane, which could result in an accident. Always verify the safety of the surrounding area and depress the brake pedal or accelerator pedal while keeping a safer distance from vehicles ahead or on-coming vehicles.

Do not use the Mazda Radar Cruise Control (MRCC) system in the following locations. Otherwise, it could lead to an accident:

- *Roads with sharp curves and where vehicle traffic is heavy and there is insufficient space between vehicles. Roads where frequent and repetitive acceleration and deceleration occur (Driving under these conditions using the Mazda Radar Cruise Control (MRCC) system is not possible).*
- *When entering and exiting interchanges, service areas, and parking areas of highways (If you exit a highway while headway control is in use, the vehicle ahead will no longer be tracked and your vehicle may accelerate to the set speed).*
- *Slippery roads such as ice or snow-bound roads (The tires could spin causing you to lose vehicle control).*
- *Long descending slopes (to maintain distance between vehicles, the system automatically and continuously applies the brakes which could result in the loss of brake power).*

For the purposes of safety, switch the Mazda Radar Cruise Control (MRCC) system off when it is not being used.

⚠ CAUTION

If the vehicle is towed or you are towing something, switch the Mazda Radar Cruise Control (MRCC) system off to prevent an incorrect operation.

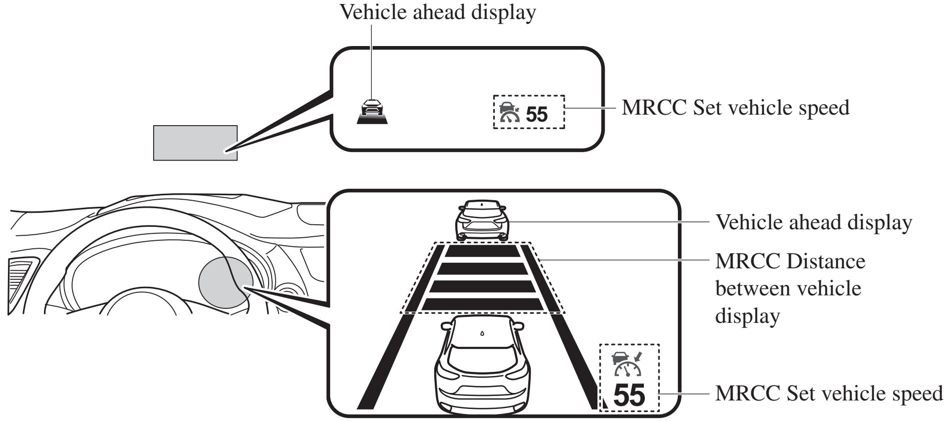
NOTE

- *The Mazda Radar Cruise Control (MRCC) system operates when all of the following conditions are met.*
    - *The vehicle speed is about 30 km/h (19 mph) to 145 km/h (90 mph).*
    - *The Mazda Radar Cruise Control (MRCC) system is turned on.*
    - *The parking brake is not applied.*
    - *The Smart Brake Support (SBS) is not malfunctioning.*
    - *The Dynamic Stability Control (DSC) is operating normally.*
    - *The selector lever is in the drive (D) position or manual (M) position (manual mode).*
    - *All doors are closed.*
    - *The driver's seat belt is fastened.*
- *In the following cases, the warnings may not activate even if your vehicle starts closing in on the vehicle ahead.*
    - *You are driving at the same speed as the vehicle ahead.*
    - *Directly after the Mazda Radar Cruise Control (MRCC) system has been set.*
    - *When the accelerator pedal is depressed or directly after the accelerator pedal is released.*
    - *Another vehicle cuts into the driving lane.*
- *The following are not detected as physical objects.*
    - *Vehicles approaching in the opposite direction*
    - *Pedestrians*
    - *Stationary objects (stopped vehicles, obstructions)*
- *If a vehicle ahead is traveling at an extremely low speed, the system may not detect it correctly.*
- *During headway control travel, do not set the system on two-wheeled vehicles such as motorcycles and bicycles.*
- *Do not use the Mazda Radar Cruise Control (MRCC) system under conditions in which the close proximity warnings are frequently activated.*
- *During headway control travel, the system accelerates and decelerates your vehicle in conjunction with the speed of the vehicle ahead. However, if it is necessary to accelerate for a lane change or if the vehicle ahead brakes suddenly causing you to close in on the vehicle rapidly, accelerate using the accelerator pedal or decelerate using the brake pedal depending on the conditions.*
- *While the Mazda Radar Cruise Control (MRCC) system is in use, it does not cancel even if the selector lever is operated and any intended engine braking will not occur. If deceleration is required, lower the vehicle speed setting or depress the brake pedal.*
- *The brake lights are illuminated while the Mazda Radar Cruise Control (MRCC) automatic braking is operating.*

- *If there is a problem with the Mazda Radar Cruise Control (MRCC) system, a message is displayed in the multi-information display. Check the center display to verify the problem and then have your vehicle inspected by an Authorized Mazda Dealer.*
  Refer to Message Indicated on Display on page 7-42.
- *The headway control operation can be canceled and the system can be switched to only cruise control. Refer to Cruise Control Function on page 4-114.*

▼Mazda Radar Cruise Control (MRCC) Display Indication

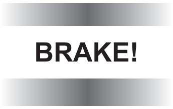
The setting status and operation conditions of the Mazda Radar Cruise Control (MRCC) system are indicated in the multi-information display and the active driving display.


Vehicle ahead display
55
MRCC Set vehicle speed
Vehicle ahead display
MRCC Distance between vehicle display
55
MRCC Set vehicle speed

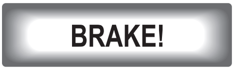
▼Close Proximity Warning

If your vehicle rapidly closes in on the vehicle ahead because the vehicle applies the brakes suddenly while you are traveling in headway control, the warning sound activates and the brake warning is indicated in the display. Always verify the safety of the surrounding area and depress the brake pedal while keeping a safer distance from the vehicle ahead. Additionally, always keep a safer distance from the vehicles behind you.

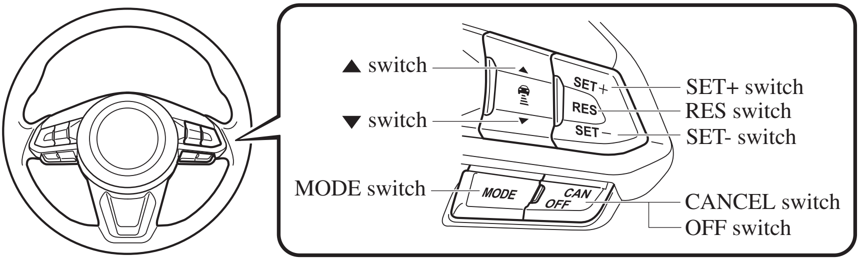
Multi-information Display



Active Driving Display



▼Setting the System


▲ switch
▼ switch
MODE switch
SET+ switch
RES switch
SET- switch
CANCEL switch
OFF switch
SET+
RES
SET−
MODE
CAN
OFF

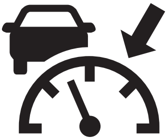
When the MODE switch is pressed, the Mazda Radar Cruise Control (MRCC) main indication (white) turns on and the vehicle speed and the distance between vehicles while in headway control can be set.

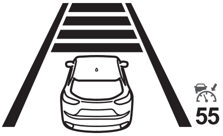
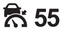
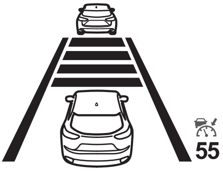
NOTE

- *When the ignition is switched to ACC or OFF while the Mazda Radar Cruise Control (MRCC) is ON, the Mazda Radar Cruise Control (MRCC) remains ON automatically.*
- *When the MODE switch is pressed while the Mazda Radar Cruise Control (MRCC) system is turned on, the system switches to the cruise control function.*

How to Set the Speed

1. Adjust the vehicle speed to the desired setting using the accelerator pedal.
2. Headway control begins when the SET+ or SET− switch is pressed. The set speed and the inter-vehicle distance display filled with white lines are displayed. The Mazda Radar Cruise Control (MRCC) set indication (green) is indicated simultaneously.



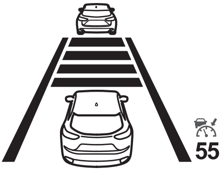
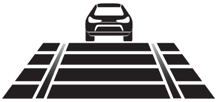
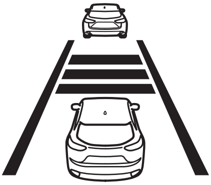
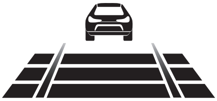
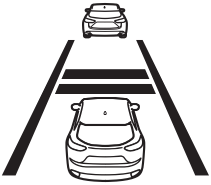
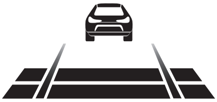
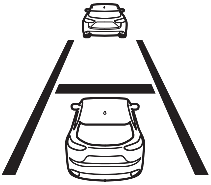
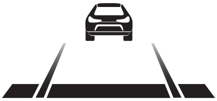
Travel status	Multi-information display	Active driving display
During travel at constant speed		
During travel under headway control		

NOTE

- *If a vehicle ahead is detected while traveling at a constant speed, the vehicle-ahead indication is displayed and headway control is performed. Additionally, when a vehicle ahead is no longer detected, the vehicle-ahead indication turns off and the system switches back to travel at constant speed.*
- *Headway control is not possible if the vehicle ahead is driving faster than the set speed. Adjust the system to the desired vehicle speed using the accelerator pedal.*

How to Set the Distance Between Vehicles During Headway Control

The distance between vehicles is set to a shorter distance each time the ▼ switch is pressed. The distance between vehicles is set to a longer distance by pressing the ▲ switch. The distance-between-vehicles can be set to 4 levels; Long, medium, short, and extremely short distance.

Distance-between-vehicles guideline (at 80 km/h (50 mph) vehicle speed)	Indication on multi-information display	Indication on active driving display[*1]
Long (about 50 m (164 ft))		
Medium (about 40 m (131 ft))		
Short (about 30 m (98 ft))		
Extremely short (about 25 m (82 ft))		

*1 Displays a pop-up image in the active driving display only when the driver operates the switch.

NOTE

- *The distance between vehicles differs depending on the vehicle speed, and the slower the vehicle speed, the shorter the distance.*
- *When the ignition is switched to ACC or OFF and then the engine is started again, the system automatically sets the distance between vehicles to the previous setting.*

Changing the Set Vehicle Speed

Changing the set vehicle speed using the SET switch

Press the SET+ switch to accelerate.
Press the SET− switch to decelerate.
The set vehicle speed changes as follows each time the SET switch is pressed.

Short press	1 km/h (1 mph)
Long press	10 km/h (5 mph)

NOTE

For example, the set vehicle speed is changed by pressing the SET switch four times as follows:
The vehicle speed accelerates or decelerates by 4 km/h (4 mph).

To accelerate using the accelerator pedal

Depress the accelerator pedal and press and release the SET+ or SET− switch at the desired speed. If a switch cannot be operated, the system returns to the set speed when you release your foot from the accelerator pedal.

⚠ CAUTION

The warnings and brake control do not operate while the accelerator pedal is depressed.

NOTE

- *When accelerating using the SET+ switch while in headway control, the set vehicle speed can be adjusted but acceleration is not possible. If there is no longer a vehicle ahead, acceleration continues until reaching the set vehicle speed. Check the set vehicle speed by viewing the set vehicle speed display in the multi-information display and the active driving display.*
- *When depressing the accelerator pedal, the inter-vehicle distance display in the multi-information display changes to the white-line display.*
- *The minimum settable speed is 30 km/h (19 mph). If the set vehicle speed reaches 30 km/h (19 mph) using the switch operation, constant speed travel is maintained at about 30 km/h (19 mph) even if the SET− switch is pressed. The Mazda Radar Cruise Control (MRCC) system is not canceled.*

To Deactivate

The Mazda Radar Cruise Control (MRCC) is deactivated when the OFF/CAN switch is pressed twice.

When the system is temporarily canceled

In the following cases, the Mazda Radar Cruise Control (MRCC) is temporarily canceled, the Mazda Radar Cruise Control (MRCC) set indication (green) is turned off, and the Mazda Radar Cruise Control (MRCC) main indication (white) is turned on.

- The OFF/CAN switch is pressed once.
- The brake pedal is depressed.
- The parking brake is applied.
- The selector lever is shifted to park (P), neutral (N) or reverse (R).
- Any door is opened.
- The driver's seat belt is unfastened.
- In the following cases, the "Mazda Radar Cruise Control Canceled" indication is displayed and the beep sounds one time.
  - The vehicle speed decreases to less than 25 km (16 mph).
  - The DSC has operated.
  - The TCS has operated for a certain period of time.
  - The Smart City Brake Support (SCBS) has operated.
  - The Smart Brake Support (SBS) has operated.
  - When traveling on a down slope for a long period of time.
  - There is a problem with the system.

NOTE

- *The Mazda Radar Cruise Control (MRCC) system may be canceled during rain, fog, snow or other inclement weather conditions, or the front surface of the radiator grille is dirty.*
- *If you have temporarily canceled the Mazda Radar Cruise Control (MRCC), you can return to your previously set speed by pressing the RES switch and after all of the operation conditions have been met.*
- *If the Mazda Radar Cruise Control (MRCC) system is deactivated, the system does not return to the previously set speed even if the RES switch is pressed.*

▼Cruise Control Function

While this function is operating, the headway control operation is canceled and only the cruise control function operates. The vehicle speed can be set more than about 25 km/h (16 mph).
Use the cruise control function on expressways and other highways which do not require a lot of repeated acceleration and deceleration.

⚠ WARNING

Do not use the cruise control function in the following locations:

Otherwise, it could lead to an accident.

- *Roads with sharp curves and where vehicle traffic is heavy and there is insufficient space between vehicles. (Driving under these conditions using the cruise control function is not possible)*
- *Steep down slopes (Set speed may be exceeded because sufficient engine braking cannot be applied)*
- *Slippery roads such as ice or snow-bound roads (Tires could spin causing you to lose vehicle control)*

Always drive carefully:

The warnings and brake control will not operate after the headway control function is canceled and the system is switched to only the cruise control function. Depress the brake pedal to decelerate according to the surrounding conditions while keeping a safer distance from the vehicle ahead and always driving carefully.

Switching to cruise control function

When the MODE switch is pressed while the Mazda Radar Cruise Control (MRCC) system is turned on, the system switches to the cruise control function.
When the system switches to the cruise control function, the indicator and multi-information display notify the driver as follows:

- The Mazda Radar Cruise Control (MRCC) set indication (green) or the Mazda Radar Cruise Control (MRCC) main indication (white) is turned off, and the cruise main indication (white) is turned on.
- A message is displayed in the multi-information display.

⚠ WARNING

Always turn off the cruise control function when it is not in use:

Leaving the cruise control function turned on when it is not in use is dangerous as it could operate unexpectedly, resulting in an accident.

How to set the speed

Adjust the system to the desired vehicle speed using the accelerator pedal.
When the SET+ or SET− switch is pressed, the cruise set indication (green) is turned on and headway control begins.

NOTE

- *The system may not be able to maintain the set speed constantly depending on driving conditions such as steep up or down slopes.*
- *The speed will continue increasing while the SET+ switch is pressed and held. The speed will continue decreasing while the SET− switch is pressed and held.*

How to increase the set speed

The set speed can be increased using the following operations:

To increase speed using the SET+ switch

Press and hold the SET+ switch and release the switch at the desired speed.
The set speed can be adjusted incrementally (1 km/h (1 mph) increments) by pressing the switch and releasing it immediately. For example, if the switch is pressed 4 times, the set speed increases by about 4 km/h (4 mph).

To increase speed using accelerator pedal

Depress the accelerator pedal and press the SET+ or SET− switch at the desired speed.
If the switch is not operated, the system returns to the set speed after you release your foot from the accelerator pedal.

How to Decrease the Set Speed

Press the SET− switch continuously and release the switch at the desired speed.
The set speed can be adjusted incrementally (1 km/h (1 mph) increments) by pressing the switch and releasing it immediately. For example, if the switch is pressed 4 times, the set vehicle speed decreases by about 4 km/h (4 mph).

Cancelling the function

Cancelling using OFF/CAN switch

When the OFF/CAN switch is pressed once, the cruise control function is cancelled.

Cancelling using MODE switch

When the MODE switch is pressed, the cruise control function is canceled and the headway control function is made available for operation.
The cruise control function is canceled automatically in the following cases. If the RES switch is pressed while the vehicle speed is 25 km/h (16 mph) or higher, the speed returns to the original set speed.

- The OFF/CAN switch is pressed once.
- The brake pedal is depressed.
- The parking brake is applied.
- The selector lever is shifted to P or N position.

NOTE

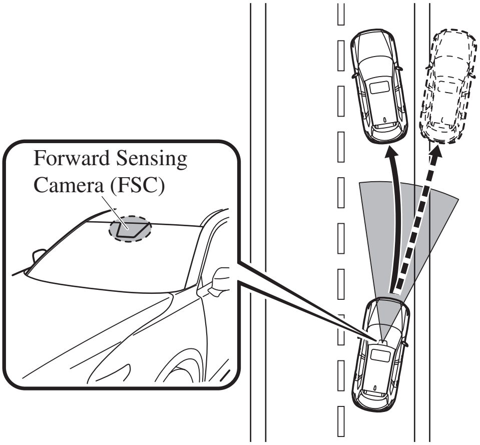
- *If the vehicle speed decreases by about 15 km/h (9.4 mph) or more than the set speed, the cruise control function may be canceled.*
- *When the vehicle speed is less than 21 km/h (13 mph), the cruise control function is canceled. In this case, the vehicle speed will not return to the original set speed even if the vehicle is accelerated to 25 km/h (16 mph) or higher and the RES switch is pressed. Reset the cruise control function.*

Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)*

The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) alerts the driver that the vehicle may be deviating from its lane and it provides steering assistance to help the driver stay within the vehicle lanes.

The Forward Sensing Camera (FSC) detects the white lines (yellow lines) of the vehicle lane in which the vehicle is traveling and if the system determines that the vehicle may deviate from its lane, it operates the electric power steering to assist the driver's steering operation. The system also alerts the driver by activating a lane departure warning sound, vibrating the steering wheel, and indicating an alert in the display.

Refer to Forward Sensing Camera (FSC) on page 4-136.



*Some models.

WARNING

Do not rely completely on the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS):

- *The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is not an automatic driving system. In addition, the system is not designed to compensate for a driver's lack of caution, and over-reliance on the system could lead to an accident.*
- *The detection ability of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is limited. Always stay on course using the steering wheel and drive with care.*

Do not use the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) in the following cases:

The system may not operate adequately according to the actual driving conditions, resulting in an accident.

- *Driving on roads with tight curves.*
- *Driving under bad weather conditions (rain, fog, and snow).*
- *Slippery roads such as ice or snow-bound roads.*
- *Roads with heavy traffic and insufficient distance between vehicles.*
- *Roads with no white (yellow) lane lines.*
- *Narrow roads resulting from road construction or lane closures.*
- *The vehicle is driven on a temporary lane or section with a closed lane resulting from road construction where there may be multiple white (yellow) lane lines or they are interrupted.*
- *The tire pressures are not adjusted to the specified pressure.*
- *Tires of a different specified size are used, such as an emergency spare tire.*

CAUTION

Heed the following cautions so that the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) can operate normally.

- *Do not modify the suspensions.*
- *Always use wheels of the specified type and size for the front and rear wheels. Consult an Authorized Mazda Dealer for tire replacement.*

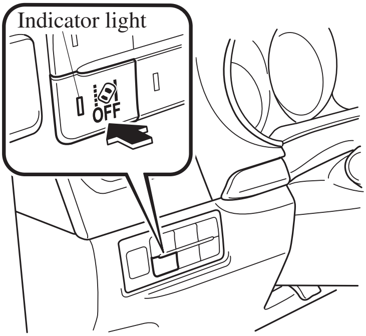
NOTE

- *When the turn signal lever is operated for a lane change, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is automatically disabled. The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) becomes operational again when the turn signal lever is returned and the system detects white (yellow) lane lines while the vehicle is being driven normally within its vehicle lane.*
- *If the steering wheel, accelerator pedal, or brake pedal is operated abruptly and the vehicle moves close to a white (yellow) line, the system determines that the driver is making a lane change and the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) operation is temporarily canceled. The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) becomes operational again when the system detects white (yellow) lane lines while the vehicle is being driven normally within its vehicle lane.*
- *If the vehicle deviates from its lane repeatedly within a short period of time, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) may not operate.*

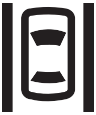
- *When white (yellow) lane lines are not detected, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) does not operate.*
- *Under the following conditions, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) may not be able to detect white (yellow) lane lines correctly and it may not operate normally.*
  - *If an object placed on the dashboard is reflected in the windshield and picked up by the camera.*
  - *Heavy luggage is loaded in the luggage compartment or on the rear seat and the vehicle is tilted.*
  - *The tire pressures are not adjusted to the specified pressure.*
  - *Tires other than conventional tires are equipped.*
  - *When the vehicle is driven on the guiding branch to or from the rest area or tollgate of a highway.*
  - *The white (yellow) lane lines are less visible because of dirt or fading/patchiness.*
  - *A vehicle in front of your vehicle is running near a white (yellow) lane line making it less visible.*
  - *A white (yellow) lane line is less visible because of bad weather (rain, fog, or snow).*
  - *The vehicle is driven on a temporary lane or section with a closed lane resulting from construction where there may be multiple white (yellow) lane lines or they are interrupted.*
  - *A misleading line is picked up on the road such as a temporary line for construction, or because of shade, lingering snow, or grooves filled with water.*
  - *The surrounding brightness suddenly changes such as when entering or exiting a tunnel.*
  - *The illumination of the headlights is weakened because of dirt or the optical axis is deviated.*
  - *The windshield is dirty or foggy.*
  - *The windshield, camera is fogged (water droplets).*
  - *Back-light is reflected off the road surface.*
  - *The road surface is wet and shiny after rain, or there are puddles on the road.*
  - *The shade of a guardrail parallel to a white (yellow) lane line is cast on the road.*
  - *The width of the driving lane is narrow or wide.*
  - *Driving on roads with tight curves.*
  - *The road is excessively uneven.*
  - *The vehicle is shaken after hitting a road bump.*
  - *There are two or more adjacent white (yellow) lane lines.*
  - *There are various road markings or lane markings of various shapes near an intersection.*

▼System Operation

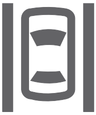
Make sure that the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch indicator light is turned off. When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch indicator light is turned on, press the switch and make sure that the switch indicator light turns off.



The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) indication (white) is displayed in the multi-information display, and the system goes on stand-by.


(White)

Drive the vehicle in the center of the vehicle lane while the system is on standby. When all of the following conditions are met, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) indication (green) is displayed in the multi-information display, and the system becomes operational.


(Green)

- The engine is running.
- The vehicle speed is about 60 km/h (37 mph) or faster.
- The system detects white (yellow) lane lines on both the right and left sides.
- The driver is operating the steering wheel.
- The driving lane is neither narrow nor wide.

The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) goes on stand-by status in the following cases:

- The system cannot detect white (yellow) lane lines.
- The vehicle speed is less than about 60 km/h (37 mph).
- The ABS/TCS/DSC is operating.
- The TCS is turned off.
  (If the TCS is turned off while the system is operational, a warning beep is heard and the system goes on standby.)
- The vehicle is making a sharp curve.
- The vehicle is making a curve at an inadequate speed.
- The driver takes his or her hands off the steering wheel (not holding the steering wheel).
- Sudden acceleration/deceleration.
- Driving on winding roads.

NOTE

- *The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) does not operate until the system detects white (yellow) lane lines on either the left or right.*
- *When the system detects a white (yellow) lane line on one side only, the system will not operate the steering wheel operation assist for the lane line on the side that is not being detected. The warning is only for a lane deviation on the side that is being detected.*
- *If the driver takes his or her hands off the steering wheel (not holding the steering wheel), the warning sound is activated and an alert is indicated in the multi-information display.*

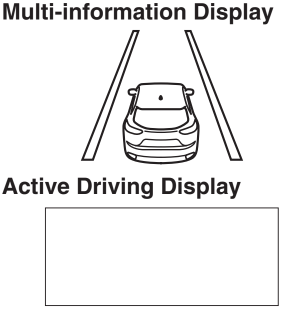
  Lane-keep Assist System. Please Hold Steering Wheel

  If the steering wheel is held lightly, or depending on the road conditions, the system may detect that you have released the steering wheel (not holding the steering wheel) even if you are holding it, and display a message in the multi-information display.
- *The timing at which the lane departure warning is activated and the steering wheel operation assist is performed varies.*
- *The following settings for the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) can be changed. Refer to Personalization Features on page 9-11.*
  - *Steering operation assist operational/non-operational*
  - *Cancel sensitivity (likelihood of steering assist)*

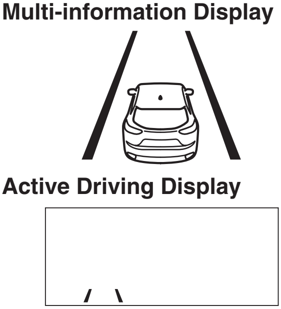
Vehicle lane line display

When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) becomes operational while on standby, the vehicle lane lines are displayed in the multi-information display and the active driving display. In the vehicle lane lines display indicating the operation status, the color of the vehicle lane lines being detected changes to white.

(Stand-by status)



(Operational status)



Auto cancel

In the following cases, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is automatically canceled, the Lane-keep Assist System (LAS) and Lane Departure Warning System (LDWS) warning indication (amber) turns on, and an alert is displayed. When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) become operational, the system turns back on automatically.

- The temperature inside the camera is high or low.
- The windshield around the camera is foggy.
- The windshield around the camera is blocked by an obstruction, causing poor forward visibility.

Auto cancel of warning/steering assist

When the following operations are performed, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) determines that the driver intends to make a lane change and the system operation is canceled automatically. The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) resumes automatically after the operation.

- The steering wheel is operated abruptly.
- The brake pedal is operated.
- The accelerator pedal is operated.
  (To cancel the automatic sensitivity cancel function, deselect "Cancel sensitivity" in the personalization features setting.)
- The turn signal lever is operated.
- The vehicle crosses a lane line.

NOTE

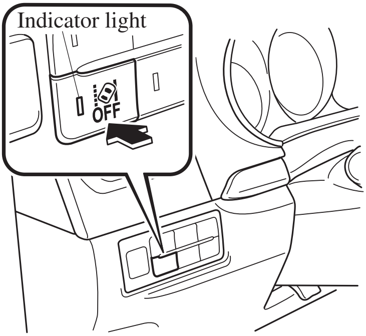
- *After the operation, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) operation may not operate for a period of 5 seconds at the most until the lane lines are detected.*
- *Under the following conditions, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) cancels the warning/steering assist automatically.*
  - *The driver takes his/her hands off the steering wheel.*
    (The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is designed to assist the driver's steering operation and it will resume operation automatically when the driver holds the steering wheel.)
  - *The TCS OFF switch is pressed to cancel the TCS.*

Steering operation assist OFF (non-operational)

The steering operation assist for the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) can be changed to non-operational (OFF).
Refer to Setting Change (Personalization Features) on page 9-11.
When the steering operation assist has been changed to non-operational (OFF), the operation conditions and the display of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) differ. Operate the system as follows:

System operation

Make sure that the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch indicator light is turned off. When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch indicator light turns on, press the switch and make sure that the switch indicator light turns off.



Drive the vehicle in the center of the driving lane while the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch indicator light is turned off.
The system becomes operational when all of the following conditions are met.

- The system detects white (yellow) lane lines on both the right and left sides or on either side.
- The vehicle speed is about 60 km/h (37 mph) or faster.
- The vehicle is driven on a straight road or road with gentle curves.
- The engine is running.

The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) goes on stand-by status in the following cases:

- The system cannot detect white (yellow) lane lines.
- The vehicle speed is less than about 60 km/h (37 mph).
- The vehicle is making a sharp curve.
- The vehicle is making a curve at an inappropriate speed.

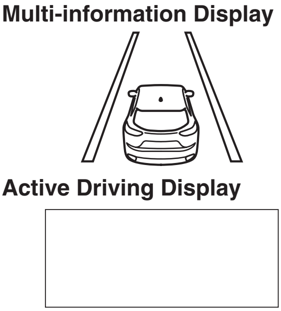
NOTE

- *The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) remains on stand-by until it detects white (yellow) lines on both the left and right sides, or on either side.*
- *When the system detects a white (yellow) lane line on one side only, the system will not activate warnings for the lane line on the side that is not being detected.*
- *The distance and warning sensitivity (likelihood of a warning) which the system uses to determine the possibility of a lane departure can be changed. Refer to Setting Change (Personalization Features) on page 9-11.*

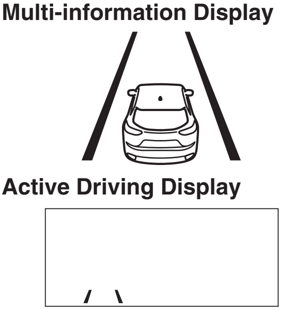
Vehicle lane line display

When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) becomes operational while on standby, the vehicle lane lines are displayed in the multi-information display and the active driving display. The system changes to operational status display when the system detects a white (yellow) line on either the left or right.

(Stand-by status)


Multi-information Display
Active Driving Display

(Operational status)


Multi-information Display
Active Driving Display

Auto cancel

In the following cases, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is automatically canceled, the Lane-keep Assist System (LAS) and Lane Departure Warning System (LDWS) warning indication (amber) turns on, and an alert is displayed. When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) become operational, the system turns back on automatically.

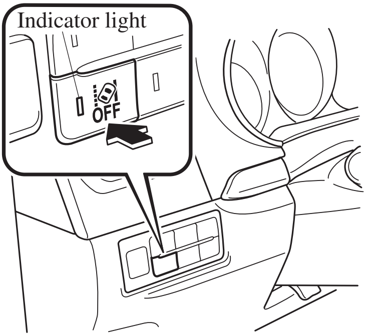
- The temperature inside the camera is high or low.
- The windshield around the camera is foggy.
- The windshield around the camera is blocked by an obstruction, causing poor forward visibility.

(Auto cancel of warnings)
When the following operations are performed, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) determines that the driver intends to make a lane change and the system operation is canceled automatically. The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is resumes automatically after the operation.

- The steering wheel is operated abruptly.
- The brake pedal is depressed.
- The accelerator pedal is depressed. (To cancel the automatic sensitivity cancel function, deselect “Warning sensitivity” in the personalization features setting.)
- The turn signal lever is operated.
- The vehicle crosses a lane line.

▼System Canceling

When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is turned off, press the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch.



The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF switch indicator light turns on.

NOTE

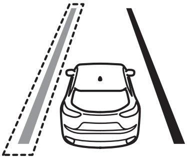
- *When the ignition is switched OFF, the system status before it was turned off is maintained. For example, if the ignition is switched OFF with the lane-keep system operable, the system will be operable when the ignition is switched ON the next time.*
- *In the following cases, the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is canceled automatically and the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF indication is displayed in the multi-information display. Have your vehicle inspected at an Authorized Mazda Dealer.*
  - *There is a malfunction in the power steering.*
  - *There is a malfunction in the DSC.*
  - *There is a malfunction in the Forward Sensing Camera (FSC).*

When the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) is turned off, the vehicle lane line indication in the multi-information display and the active driving display turn off.

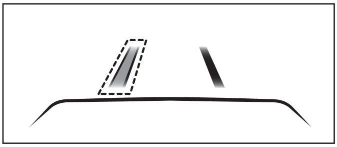
▼Lane Departure Warning

If the system determines that the vehicle may deviate from its lane, the lane departure warning (beep sound, rumble sound[*1], or steering wheel vibration) is activated and the direction in which the system determines that the vehicle may deviate is indicated in the multi-information display and the active driving display.
If the system determines that the vehicle may deviate from its lane, the color of the lane line on the side being detected by the system changes from white to amber, and flashes.

Multi-information Display



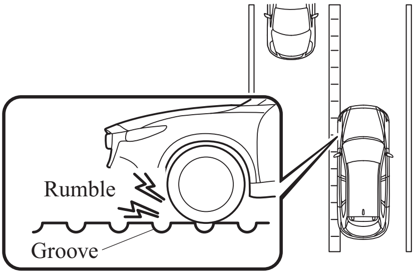
Active Driving Display



NOTE

- *If you have set the lane departure warning sound to the beep sound/rumble sound[*1] setting, the warning sound may not be heard depending on the surrounding noise conditions.*
- *If you have set the lane departure warning system to the steering wheel vibrations setting, the vibration may not be felt depending on the road surface conditions.*
- *When the setting for the steering operation assist is changed to operational, the warnings can be set to activate/not activate. (When the setting for the steering operation assist is changed to non-operational, the warnings cannot be set to not activate.)*
  Refer to Setting Change (Personalization Features) on page 9-11.
- *The Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) can be changed to the following settings regardless of whether the steering operation assist has been set to operational/non-operational. Always check the setting status when driving the vehicle and make setting changes if necessary.*
  Refer to Setting Change (Personalization Features) on page 9-11.
  - *Steering wheel vibration: Strong/weak*
  - *Warning sound volume*
  - *Types of warnings (steering wheel vibration/beep sound/rumble sound[*1])*

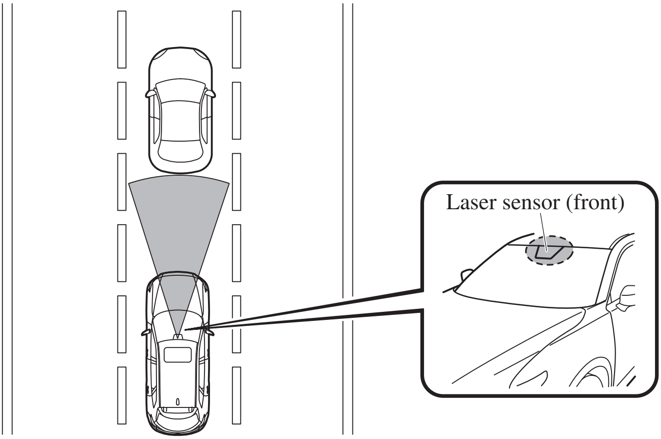
**1 A rumble strip is a series of grooves in the road pavement surface positioned at specific intervals, and when the vehicle passes over it a vibration and rumble sound is produced which alerts the driver that the vehicle is departing from the lane.*
The rumble sound is a reproduction of the sound which occurs when a vehicle passes over a rumble strip.



Smart City Brake Support (SCBS)*

The Smart City Brake Support (SCBS) system is designed to reduce damage in the event of a collision by operating the brake control (SCBS brake) when the system's laser sensor (front) detects a vehicle ahead and determines that a collision with a vehicle ahead is unavoidable. It may also be possible to avoid a collision if the relative speed between your vehicle and a vehicle ahead is less than about 20 km/h (12 mph).

In addition, when the driver depresses the brake pedal while the system is in the operation range at about 4 to 30 km/h (2 to 18 mph), the brakes are applied firmly and quickly to assist. (Brake Assist (SCBS brake assist))



WARNING

Do not rely on the Smart City Brake Support System (SCBS) as a substitute for safer driving:

> *The Smart City Brake Support (SCBS) system cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), and driving on slippery roads such as wet, snowy, and icy roads (reduced tire friction and road contact because of water on the road surface). You can still have an accident.*

*Some models.

Do not rely completely on the Smart City Brake Support (SCBS) system:

- *The Smart City Brake Support (SCBS) system is only designed to reduce damage in the event of a collision. Over reliance on the system leading to the accelerator pedal or brake pedal being mistakenly operated could result in an accident.*
- *The Smart City Brake Support (SCBS) is a system which operates in response to a vehicle ahead. The system may not be able to detect or react to two-wheeled vehicles or pedestrians.*
- *The laser sensor (front) for the Smart City Brake Support (SCBS) system is installed near the rearview mirror. To assure the correct operation of the Smart City Brake Support (SCBS), heed the following cautions.*
  - *Do not apply stickers to the surface of the windshield near the laser sensor (front) (including transparent stickers). Otherwise, the laser sensor (front) may not be able to detect vehicles ahead which could result in an accident.*
  - *Do not apply coating agent to the windshield. Otherwise, the laser sensor (front) may not be able to detect vehicles or obstructions in front which could result in an accident.*
  - *Do not disassemble the laser sensor (front).*
  - *If cracks or damage caused by flying gravel or debris is visible near the laser sensor (front), stop using the Smart City Brake Support (SCBS) system immediately and have your vehicle inspected by an Authorized Mazda Dealer. If the vehicle continues to be driven with cracks or scratch marks left on the windshield near the laser sensor (front), the system may operate unnecessarily and cause an unexpected accident. Refer to Stopping the Smart City Brake Support (SCBS) System Operation on page 4-132.*
  - *When replacing the windshield wipers or windshield, consult an Authorized Mazda Dealer.*

Do not modify the suspension:

If the vehicle height or inclination is changed, the system will not be able to correctly detect vehicles ahead. This will result in the Smart City Brake Support (SCBS) system not operating normally or mistakenly operating, which could cause a serious accident.

Turn off the Smart City Brake Support (SCBS) when the vehicle is running on a chassis roller or being towed:

Turn off the Smart City Brake Support (SCBS) system to prevent mistaken operation when the vehicle is running on a chassis roller or being towed.
Refer to the Stopping the Smart City Brake Support (SCBS) System Operation on page 4-132 on how to turn off the Smart City Brake Support (SCBS) system.

⚠ CAUTION

- *When driving off-road in areas where there is grass or foliage, it is recommended that the Smart City Brake Support (SCBS) system be turned off.*
- *Always use tires for all wheels that are of the specified size, and the same manufacturer, brand, and tread pattern. In addition, do not use tires with significantly different wear patterns on the same vehicle as the Smart City Brake Support (SCBS) system may not operate normally.*
- *The laser sensor (front) includes a function for detecting a soiled windshield and informing the driver, however, depending on the conditions, it may not detect plastic shopping bags, ice or snow on the windshield. In such cases, the system cannot accurately determine a vehicle ahead and may not be able to operate normally. Always drive carefully and pay attention to the road ahead.*

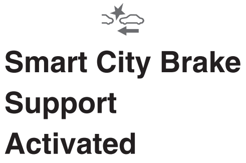
NOTE

- *The Smart City Brake Support (SCBS) system will not operate if the driver is deliberately performing driving operations (accelerator pedal and steering wheel).*
- *The Smart City Brake Support (SCBS) system will operate under the following conditions.*
  - *The engine is running.*
  - *“Forward Smart City Brake Support Malfunction” is not displayed in the multi-information display.*
  - *The vehicle speed is between about 4 to 30 km/h (2 to 18 mph).*
  - *The Smart City Brake Support (SCBS) system is not turned off.*
  - *The DSC is not malfunctioning.*
- *The Smart City Brake Support (SCBS) detects a vehicle ahead by emitting a near-infrared laser beam and receiving the beam reflected off the reflector of the vehicle ahead, and then using it for the measurement. Consequently, the Smart City Brake Support (SCBS) may not operate under the following conditions:*
  - *Reflection of the laser is poor due to the shape of the vehicle ahead.*
  - *The vehicle ahead is significantly dirty.*
  - *Under bad weather condition, such as rain, fog and snow.*
  - *The window washer is being used or the windshield wipers are not used when it's raining.*
  - *The windshield is dirty.*
  - *The steering wheel is turned completely left or right, or the vehicle is accelerated rapidly and comes close to the vehicle ahead.*
  - *Trucks with low loading platforms and vehicles with an extremely low or high profile.*
  - *Vehicles with certain shapes such as a vehicle carrier.*

- *Under the following conditions, the Smart City Brake Support (SCBS) system may not operate normally.*
  - *Heavy luggage is loaded in the luggage compartment or on the rear seat.*
  - *If there is the possibility of partial contact with a vehicle ahead.*
  - *When driving on continuously curving roads, and entering and exiting exits.*
  - *Elongated luggage or cargo is loaded onto installed roof rails and covers the laser sensor (front).*
  - *Exhaust gas from the vehicle in front, sand, snow, and water vapor rising from manholes and grating, and water splashed into the air.*
  - *When towing a malfunctioning vehicle.*
  - *When driving with tires having significantly different wear.*
- *In the following cases, the laser sensor (front) may inadvertently determine that there is a vehicle ahead and the Smart City Brake Support (SCBS) system may operate.*
  - *Objects on the road at the entrance to a curve.*
  - *Vehicles passing in the opposite lane while making a curve.*
  - *Metal objects, bumps, or protruding objects on the road.*
  - *When passing through a toll gate equipped with a bar.*
  - *When passing under a vinyl curtain or flag.*
  - *Plastic objects such as pylons.*
  - *Two-wheeled vehicles, pedestrians, animals or standing trees.*
- *When the system operates, the user is notified by the multi-information display.*
- *The Smart City Brake Support (SCBS) warning indication (amber) turns on when the system has a malfunction.*
  Refer to Warning Indication/Warning Lights on page 4-32.

▼Automatic Brake Operation Display

“Smart City Brake Support Activated” is displayed in the multi-information display while the SCBS brakes or the brake assist (SCBS brake assist) is operating.



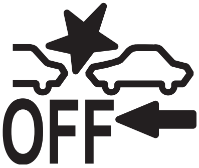
Smart City Brake
Support
Activated

NOTE

- *The collision warning beep sounds intermittently while the SCBS brake or brake assist (SCBS brake assist) is operating.*
- *If the vehicle is stopped by the SCBS operation and the brake pedal is not depressed, the warning beep sounds one time after about 2 seconds and the SCBS brake is automatically released.*

▼Stopping the Smart City Brake Support (SCBS) System Operation

The Smart City Brake Support (SCBS) system can be temporarily deactivated. Refer to Personalization Features on page 9-11.
When the Smart City Brake Support (SCBS) system is turned off, the Smart City Brake Support (SCBS) OFF indicator light turns on.



When the engine is restarted, the system becomes operational.

Smart Brake Support (SBS)*

Smart Brake Support (SBS) is a system which alerts the driver of a possible collision using an indicator and warning sound in the instrument cluster while the vehicle is being driven at about 15 km/h or faster (10 mph or faster) and the system's radar sensor (front) determines that your vehicle may hit a vehicle ahead. Furthermore, if the radar sensor (front) determines that a collision is unavoidable, the automatic brake control is performed to reduce damage in the event of a collision.
In addition, when the driver depresses the brake pedal, the brakes operate more quickly to assist the driver.

⚠ WARNING

Do not rely completely on the Smart Brake Support (SBS) system and always drive carefully:

The Smart Brake Support (SBS) is designed to reduce damage in the event of a collision, not avoid an accident. The ability to detect an obstruction is limited depending on the obstruction, weather conditions, or traffic conditions. Therefore, if the accelerator pedal or brake pedal is mistakenly operated it could result in an accident. Always verify the safety of the surrounding area and depress the brake pedal or accelerator pedal while keeping a safer distance from vehicles ahead or on-coming vehicles.

⚠ CAUTION

If the vehicle is towed or you are towing something, switch the Smart Brake Support (SBS) system off to prevent a mistaken operation.

*Some models.

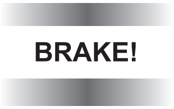
NOTE

- *The Smart Brake Support (SBS) system operates when all of the following conditions are met:*
  - *The ignition is switched ON.*
  - *The Smart Brake Support (SBS) system is on.*
  - *The vehicle speed is about 15 km/h or faster (10 mph or faster).*
  - *The relative speed between your vehicle and the vehicle ahead is about 15 km/h or faster (10 mph or faster).*
  - *The Dynamic Stability Control (DSC) is not operating.*
- *The Smart Brake Support (SBS) system may not operate under the following conditions:*
  - *If the vehicle is accelerated rapidly and it comes close to a vehicle ahead.*
  - *The vehicle is driven at the same speed as the vehicle ahead.*
  - *The accelerator pedal is depressed.*
  - *The brake pedal is depressed.*
  - *The steering wheel is being operated.*
  - *The selector lever is being operated.*
  - *The turn signal is being used.*
  - *When the vehicle ahead is not equipped with taillights or the taillights are turned off.*
  - *When warnings and messages, such as a dirty windshield, related to the Forward Sensing Camera (FSC)/laser sensor (front) are being displayed in the multi-information display.*
- *Although the objects which activate the system are four-wheeled vehicles, the radar sensor (front) could detect the following objects, determine them to be an obstruction, and operate the Smart Brake Support (SBS) system.*
  - *Objects on the road at the entrance to a curve (including guardrails and snow banks).*
  - *A vehicle appears in the opposite lane while cornering or rounding a curve.*
  - *When crossing a narrow bridge.*
  - *When passing under a low gate or through a tunnel or narrow gate.*
  - *When entering an underground parking area.*
  - *Metal objects, bumps, or protruding objects on the road.*
  - *If you suddenly come close to a vehicle ahead.*
  - *When driving in areas where there is high grass or forage.*
  - *Two-wheeled vehicles such as motorbikes or bicycles.*
  - *Pedestrians or non-metallic objects such as standing trees.*
- *When the system operates, the user is notified by the multi-information display.*
- *The Smart Brake Support (SBS) warning indication (amber) turns on when the system has a malfunction.*
  Refer to Warning Indication/Warning Lights on page 4-31.

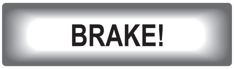
▼Collision Warning

If there is the possibility of a collision with a vehicle ahead, the beep sounds continuously and a warning is indicated in the multi-information display or the active driving display.

Multi-information Display

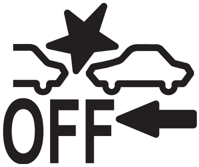


Active Driving Display



▼Stopping The Smart Brake Support (SBS) System Operation

The Smart Brake Support (SBS) system can be temporarily deactivated.
Refer to Personalization Features on page 9-11.
When the Smart Brake Support (SBS) system is turned off, the Smart Brake Support (SBS) OFF indicator light turns on.



When the engine is restarted, the system becomes operational.

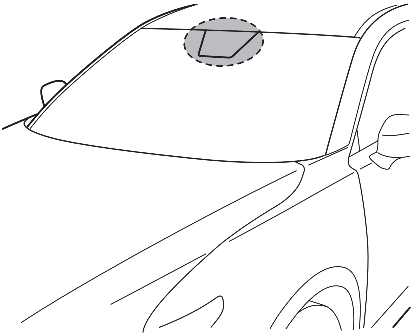
NOTE

If the Smart Brake Support (SBS) system operation is turned off, the Smart City Brake Support (SCBS) system operation is turned off simultaneously.

Forward Sensing Camera (FSC)*

Your vehicle is equipped with a Forward Sensing Camera (FSC). The Forward Sensing Camera (FSC) is positioned near the rearview mirror and used by the following systems.

- High Beam Control System (HBC)
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)
- Smart Brake Support (SBS)



The Forward Sensing Camera (FSC) determines the conditions ahead of the vehicle while traveling at night and detects traffic lanes. The distance in which the Forward Sensing Camera (FSC) can detect objects varies depending on the surrounding conditions.

*Some models.

CAUTION

- *Do not apply accessories, stickers or film to the windshield near the Forward Sensing Camera (FSC).*
  If the area in front of the Forward Sensing Camera (FSC) lens is obstructed, it will cause the system to not operate correctly. Consequently, each system may not operate normally which could lead to an unexpected accident.
- *Do not disassemble or modify the Forward Sensing Camera (FSC).*
  Disassembly or modification of the Forward Sensing Camera (FSC) will cause a malfunction or mistaken operation. Consequently, each system may not operate normally which could lead to an unexpected accident.
- *Heed the following cautions to assure the correct operation of the Forward Sensing Camera (FSC).*
  - *The direction of the Forward Sensing Camera (FSC) has been finely adjusted, therefore do not change the installation position or remove the Forward Sensing Camera (FSC).*
  - *Be careful not to scratch the Forward Sensing Camera (FSC) lens or allow it to get dirty.*
  - *Do not remove the Forward Sensing Camera (FSC) cover.*
  - *Do not place objects on the dashboard which reflect light.*
  - *Always keep the windshield glass around the camera clean by removing dirt or fogging. Use the windshield defroster to remove fogging on the windshield.*
  - *Consult an Authorized Mazda Dealer regarding cleaning the interior side of the windshield around the Forward Sensing Camera (FSC).*
  - *Consult an Authorized Mazda Dealer before performing repairs around the Forward Sensing Camera (FSC).*
  - *The Forward Sensing Camera (FSC) is installed to the windshield. Consult an Authorized Mazda Dealer for windshield repair and replacement.*
  - *When performing repairs around the rearview mirror, consult an Authorized Mazda Dealer.*
  - *Do not hit or apply strong force to the Forward Sensing Camera (FSC) or the area around it. If strong force is applied, stop using the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS), the High Beam Control System (HBC), and the Smart Brake Support (SBS) and consult an Authorized Mazda Dealer.*
  - *The direction in which the Forward Sensing Camera (FSC) is pointed has been finely adjusted. Do not change the installation position of the Forward Sensing Camera (FSC) or remove it. Otherwise, it could result in damage or malfunction.*

NOTE

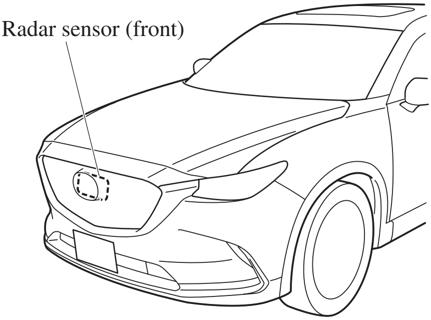
- *In the following cases, the Forward Sensing Camera (FSC) cannot detect target objects correctly, and each system may be unable to operate normally.*
  - *The height of the vehicle ahead is low.*
  - *You drive your vehicle at the same speed as the vehicle ahead.*
  - *Headlights are not turned on during the night or when going through a tunnel.*
- *In the following cases, the Forward Sensing Camera (FSC) may not be able to detect target objects correctly.*
  - *When driving next to walls with no patterning (including fences and longitudinally striped walls).*
  - *The taillights of the vehicle ahead are turned off.*
  - *A vehicle is outside the illumination range of the headlights.*
  - *The vehicle is making a sharp turn, or ascending or descending a steep slope.*
  - *Entering or exiting a tunnel.*
  - *Heavy luggage is loaded causing the vehicle to tilt.*
  - *Strong light is shone at the front of the vehicle (back light or high-beam light from on-coming vehicles).*
  - *There are many light emitters on the vehicle ahead.*
  - *When the vehicle ahead is not equipped with taillights or the taillights are turned off at nighttime.*
  - *The vehicle ahead has a special shape. For example, a vehicle towing a trailer house or a boat, or a vehicle carrier carrying a vehicle with its front pointed rearward.*

Radar Sensor (Front)*

Your vehicle is equipped with a radar sensor (front).
The following systems also use the radar sensor (front).

- Distance Recognition Support System (DRSS)
- Mazda Radar Cruise Control (MRCC)
- Smart Brake Support (SBS)

The radar sensor (front) functions by detecting the radio waves reflected off a vehicle ahead or an obstruction sent from the radar sensor.
The radar sensor (front) is mounted behind the front emblem.



If “Front Radar Sensor Blocked” is displayed in the multi-information display of the instrument cluster, clean the area around the radar sensor (front).

*Some models.

CAUTION

Heed the following precautions to assure correct operation of each system.

- *Do not adhere stickers (including transparent stickers) to the surface of the radiator grille and front emblem in and around the radar sensor (front), and do not replace the radiator grille and front emblem with any product that is not a genuine product designed for use with the radar sensor (front).*
- *The radar sensor (front) includes a function for detecting soiling of the radar sensor's front surface and informing the driver, however, depending on the conditions, it may require time to detect or it may not detect plastic shopping bags, ice or snow. If this occurs, the system may not operate correctly, therefore always keep the radar sensor (front) clean.*
- *Do not install a grille guard.*
- *If the front part of the vehicle has been damaged in a vehicle accident, the position of the radar sensor (front) may have moved. Stop the system immediately and always have the vehicle inspected at an Authorized Mazda Dealer.*
- *Do not use the front bumper to push other vehicles or obstructions such as when pulling out of a parking space. Otherwise, the radar sensor (front) could be hit and its position deviated.*
- *Do not remove, disassemble, or modify the radar sensor (front).*
- *For repairs, replacement or paint work around the radar sensor (front), consult an Authorized Mazda Dealer.*
- *Do not modify the suspension. If the suspension are modified, the vehicle's posture could change and the radar sensor (front) may not be able to correctly detect a vehicle ahead or an obstruction.*

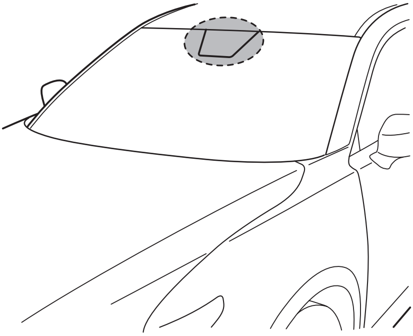
NOTE

- *Under the following conditions, the radar sensor (front) may not be able to detect vehicles ahead or obstructions correctly and each system may not operate normally.*
  - *The rear surface of a vehicle ahead does not reflect radio waves effectively, such as an unloaded trailer or an automobile with a loading platform covered by a soft top, vehicles with a hard plastic tailgate, and round-shaped vehicles.*
  - *Vehicles ahead with low vehicle height and thus less area for reflecting radio waves.*
  - *Visibility is reduced due to a vehicle ahead casting off water, snow, or sand from its tires and onto your windshield.*
  - *The luggage compartment is loaded with heavy objects or the rear passenger seats are occupied.*
  - *Ice, snow, or soiling is on the front surface of the front emblem.*
  - *During inclement weather such as rain, snow, or sand storms.*
  - *When driving near facilities or objects emitting strong radio waves.*
- *Under the following conditions, the radar sensor (front) may not be able to detect vehicles ahead or obstructions.*
  - *The beginning and end of a curve.*
  - *Roads with continuous curves.*
  - *Narrow lane roads due to road construction or lane closures.*
  - *The vehicle ahead enters the radar sensor's blind spot.*
  - *The vehicle ahead is running abnormally due to accident or vehicle damage.*
  - *Roads with repeated up and down slopes*
  - *Driving on poor roads or unpaved roads.*
  - *The distance between your vehicle and the vehicle ahead is extremely short.*
  - *A vehicle suddenly comes close such as by cutting into the lane.*
- *To prevent incorrect operation of the system, use tires of the same specified size, manufacturer, brand, and tread pattern on all four wheels. In addition, do not use tires with significantly different wear patterns or tire pressures on the same vehicle (Including the temporary spare tire).*
- *If the battery power is weak, the system may not operate correctly.*
- *When driving on roads with little traffic and few vehicles ahead or obstructions for the radar sensor (front) to detect, "Front Radar Sensor Blocked" may be temporarily displayed, however, this does not indicate a problem.*

Laser Sensor (Front)*

Your vehicle is equipped with a laser sensor (front). The laser sensor (front) is positioned near the rearview mirror and used by the following systems.

- Smart City Brake Support (SCBS)
- Smart Brake Support (SBS)



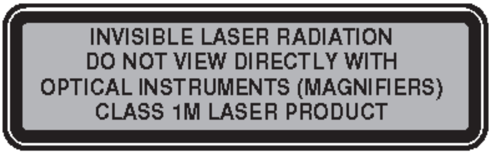
CAUTION

Heed the following precautions to assure correct operation of the system.

- *Keep the windshield clean at all times.*
- *Do not apply stickers to the surface of the windshield (including transparent stickers).*
- *If cracks or damage caused by flying gravel or debris is visible near the laser sensor (front), stop using the system immediately and have your vehicle inspected by an Authorized Mazda Dealer.*
  Refer to the Personalization Features on page 9-11 on how to turn off the system.
- *Do not apply a coating agent to the windshield.*
- *When replacing the windshield wipers or windshield, consult an Authorized Mazda Dealer.*
- *Never remove the sensor.*
- *A removed sensor will not meet the conditions for a class 1M laser under the IEC 60825-1 specification and therefore eye safety cannot be assured.*
- *Do not peer into the sensor using optical instruments with a magnification function such as magnifying glasses, and microscopic and objective lenses within a distance of 100 mm (3.94 in) from the sensor.*

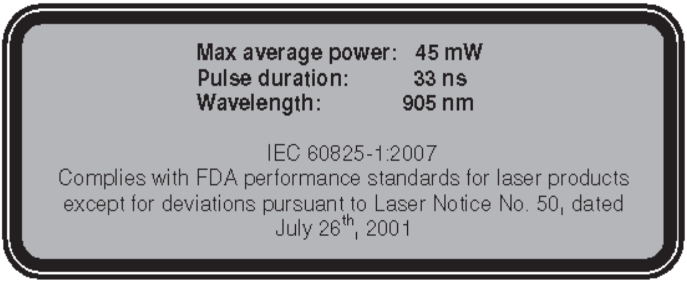
*Some models.

Laser classification label:



INVISIBLE LASER RADIATION
DO NOT VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS (MAGNIFIERS)
CLASS 1M LASER PRODUCT

Laser explanatory label:



Max average power: 45 mW
Pulse duration: 33 ns
Wavelength: 905 nm

IEC 60825-1:2007
Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated July 26th, 2001

Laser sensor radiation data
Maximum average power: 45 mW
Pulse duration: 33 ns
Wavelength: 905 nm
Divergence angle (horizontal×vertical):28 degrees×12 degrees

NOTE

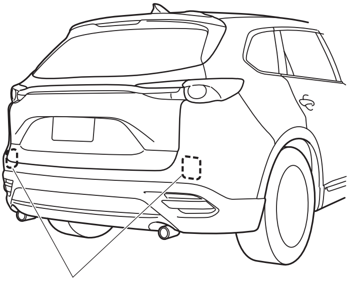
- *In the following cases, the laser sensor (front) cannot detect vehicles ahead correctly, and each system may be unable to operate normally.*
  - *The windshield is dirty.*
  - *Elongated luggage or cargo is loaded onto installed roof rails and covers the laser sensor (front).*
  - *Exhaust gas from the vehicle in front, sand, snow, and water vapor rising from manholes and grating, and water splashed into the air.*
- *If there are recognizable cracks or damage caused by flying gravel or debris on the windshield, always have the windshield replaced. Consult an Authorized Mazda Dealer for replacement.*

Radar Sensors (Rear)*

Your vehicle is equipped with radar sensors (rear). The following systems also use the radar sensors (rear).

- Blind Spot Monitoring system (BSM)
- Rear Cross Traffic Alert (RCTA)

The radar sensors (rear) function by detecting the radio waves reflected off a vehicle approaching from the rear or an obstruction sent from the radar sensor.



Radar sensors (rear)

The radar sensors (rear) are installed inside the rear bumper, one each on the left and right sides.
Always keep the surface of the rear bumper near the radar sensors (rear) clean so that the radar sensors (rear) operate normally. Also, do not apply items such as stickers.
Refer to Exterior Care on page 6-62.

CAUTION

If the rear bumper receives a severe impact, the system may no longer operate normally. Stop the system immediately and have the vehicle inspected at an Authorized Mazda Dealer.

*Some models.

NOTE

- *The detection ability of the radar sensors (rear) has limitations. In the following cases, the detection ability may lower and the system may not operate normally.*
  - *The rear bumper near the radar sensors (rear) has become deformed.*
  - *Snow, ice or mud adheres to the radar sensors (rear) on the rear bumper.*
  - *Under bad weather conditions such as rain, snow and fog.*
- *Under the following conditions, the radar sensors (rear) cannot detect target objects or it may be difficult to detect them.*
  - *Stationary objects on a road or a road side such as small, two-wheeled vehicles, bicycles, pedestrians, animals, and shopping carts.*
  - *Vehicle shapes which do not reflect radar waves well such as empty trailers with a low vehicle height and sports cars.*
- *Vehicles are shipped with the direction of the radar sensors (rear) adjusted for each vehicle to a loaded vehicle condition so that the radar sensors (rear) detect approaching vehicles correctly. If the direction of the radar sensors (rear) has deviated for some reason, have the vehicle inspected at an Authorized Mazda Dealer.*
- *For repairs or replacement of the radar sensors (rear), or bumper repairs, paintwork, and replacement near the radar sensors, consult an Authorized Mazda Dealer.*
- *Turn off the system while pulling a trailer or while an accessory such as a bicycle carrier is installed to the rear of the vehicle. Otherwise, the radio waves emitted by the radar will be blocked causing the system to not operate normally.*
- *The radar sensors are regulated by the relevant radio wave laws of the country in which the vehicle is driven. If the vehicle is driven abroad, authorization from the country in which the vehicle is driven may be required.*

Cruise Control*

With cruise control, you can set and automatically maintain any speed of more than about 25 km/h (16 mph).

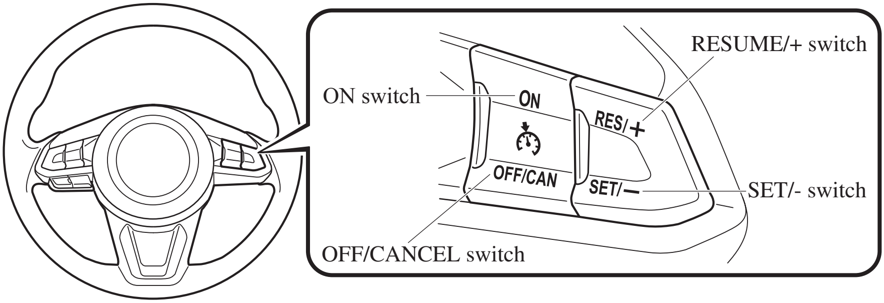
WARNING

Do not use the cruise control under the following conditions:

Using the cruise control under the following conditions is dangerous and could result in loss of vehicle control.

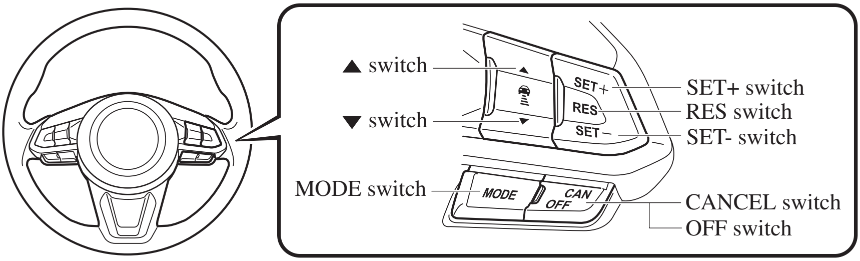
- *Hilly terrain*
- *Steep inclines*
- *Heavy or unsteady traffic*
- *Slippery or winding roads*
- *Similar restrictions that require inconsistent speed*

▼Cruise Control Switch


RESUME/+ switch
ON switch
ON
RES/+
OFF/CAN
SET/−
SET/- switch
OFF/CANCEL switch

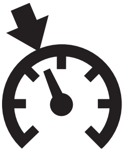
NOTE

If your Mazda has the following steering switch, your Mazda is equipped with the Mazda Radar Cruise Control (MRCC) system.
Refer to Mazda Radar Cruise Control (MRCC) on page 4-105.


▲ switch
▼ switch
SET+
RES
SET−
SET+ switch
RES switch
SET- switch
MODE switch
MODE
CAN
OFF
CANCEL switch
OFF switch

*Some models.

▼Cruise Main Indication (White)/ Cruise Set Indication (Green)



The indication has two colors.

Cruise Main Indication (White)

The indication turns on (white) when the cruise control system is activated.

Cruise Set Indication (Green)

The indication turns on (green) when a cruising speed has been set.

▼Activation/Deactivation

To activate the system, press the ON switch. The cruise main indication (white) turns on.
To deactivate the system, press the OFF/CANCEL switch.
The cruise main indication (white) turns off.

⚠ WARNING

Always turn off the cruise control system when it is not in use:

> *Leaving the cruise control system in an activation-ready state while the cruise control is not in use is dangerous as the cruise control could unexpectedly activate if the activation button is accidentally pressed, and result in loss of vehicle control and an accident.*

NOTE

When the ignition is switched OFF, the system status before it was turned off is maintained. For example, if the ignition is switched OFF with the cruise control system operable, the system will be operable when the ignition is switched ON the next time.

▼To Set Speed

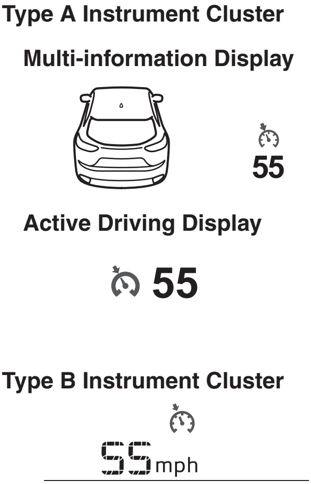
1. Activate the cruise control system by pressing the ON switch. The cruise main indication (white) turns on.
2. Accelerate to the desired speed, which must be more than 25 km/h (16 mph).
3. Set the cruise control by pressing the SET/− switch at the desired speed. The cruise control is set at the moment the SET/− switch is pressed. Release the accelerator pedal simultaneously. The cruise set indication (green) turns on.

NOTE

- *The cruise control speed setting cannot be performed under the following conditions:*
  - *The selector lever is in the P or N position.*
  - *The parking brake is applied.*
- *Release the SET/− or RESUME/+ switch at the desired speed, otherwise the speed will continue increasing while the RESUME/+ switch is pressed and held, and continue decreasing while the SET/− switch is pressed and held (except when the accelerator pedal is depressed).*
- *On a steep grade, the vehicle may momentarily slow down while ascending or speed up while descending.*

- *The cruise control will cancel if the vehicle speed decreases below 21 km/h (13 mph) when the cruise control is activated, such as when climbing a steep grade.*
- *The cruise control may cancel at about 15 km/h (9 mph) below the preset speed, such as when climbing a long, steep grade.*

The vehicle speed preset using the cruise control is displayed in the instrument cluster and the active driving display (vehicles with active driving display).


Type A Instrument Cluster
Multi-information Display
55
Active Driving Display
55
Type B Instrument Cluster
55 mph

▼To Increase Cruising Speed

Follow either of these procedures.

To increase speed using cruise control switch

Press the RESUME/+ switch and hold it. Your vehicle will accelerate. Release the switch at the desired speed.

Press the RESUME/+ switch and release it immediately to adjust the preset speed. Multiple operations will increase the preset speed according to the number of times it is operated.

Increasing speed with a single RESUME/+ switch operation

Instrument cluster display for vehicle speed indicated in km/h: 1 km/h (0.6 mph)
Instrument cluster display for vehicle speed indicated in mph: 1 mph (1.6 km/h)

To increase speed using accelerator pedal

Depress the accelerator pedal to accelerate to the desired speed. Press the SET/− switch and release it immediately.

NOTE

Accelerate if you want to speed up temporarily when the cruise control is on. Greater speed will not interfere with or change the set speed. Take your foot off the accelerator to return to the set speed.

▼To Decrease Cruising Speed

Press the SET/− switch and hold it. The vehicle will gradually slow.
Release the switch at the desired speed.

Press the SET/− switch and release it immediately to adjust the preset speed. Multiple operations will decrease the preset speed according to the number of times it is operated.

Decreasing speed with a single SET/− switch operation

Instrument cluster display for vehicle speed indicated in km/h: 1 km/h (0.6 mph)
Instrument cluster display for vehicle speed indicated in mph: 1 mph (1.6 km/h)

▼To Resume Cruising Speed at More Than 25 km/h (16 mph)

If some other method besides the OFF/CANCEL switch was used to cancel cruising speed (such as applying the brake pedal) and the system is still activated, the most recent set speed will automatically resume when the RESUME/+ switch is pressed.
If vehicle speed is below 25 km/h (16 mph), increase the vehicle speed up to 25 km/h (16 mph) or more and press the RESUME/+ switch.

▼To Temporarily Cancel

To temporarily cancel the system, use one of these methods:

- Slightly depress the brake pedal.
- Press the OFF/CANCEL switch.

If the RESUME/+ switch is pressed when the vehicle speed is 25 km/h (16 mph) or higher, the system reverts to the previously set speed.

NOTE

- *If any of the following conditions occur, the cruise control system is temporarily canceled.*
  - *The parking brake is applied.*
  - *The selector lever is in the P or N position.*
- *When the cruise control system is temporarily canceled by even one of the applicable cancel conditions, the speed cannot be re-set.*
- *The cruise control cannot be cancelled while driving in manual mode (selector lever shifted from D to M position). Therefore, engine braking will not be applied even if the transaxle is shifted down to a lower gear. If deceleration is required, lower the set speed or depress the brake pedal.*

▼To Deactivate

When a cruising speed has been set (cruise set indication (green) turns on)

Long-press the OFF/CANCEL switch or press the OFF/CANCEL switch 2 times.

When a cruising speed has not been set (cruise main indication (white) turns on)

Press the OFF/CANCEL switch.

Tire Pressure Monitoring System*

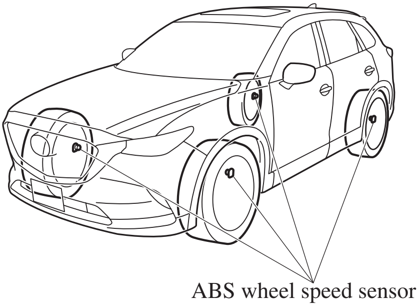
The Tire Pressure Monitoring System (TPMS) monitors the air pressure of all four tires. If the air pressure of one or more tires is too low, the system warns the driver by indicating the tire pressure monitoring system warning light in the instrument cluster and operating a beep sound. The system monitors the tire pressures indirectly using the data sent from the ABS wheel speed sensors.

To allow the system to operate correctly, the system needs to be initialized with the specified tire pressure (value on the tire pressure label). Follow the procedure and perform the initialization.

Refer to Tire Pressure Monitoring System Initialization on page 4-153.

The warning light flashes when the system has a malfunction.

Refer to Warning Indication/Warning Lights on page 4-32.



*Some models.

CAUTION

- *Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)*
  As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.
  Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.
  Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly.
  The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.
- *To avoid false readings, the system samples for a little while before indicating a problem. As a result it will not instantaneously register a rapid tire deflation or blow out.*

NOTE

Because this system detects slight changes in tire conditions, the timing of the warning may be faster or slower in the following cases:

- *The size, manufacturer, or the type of tires is different from the specification.*
- *The size, manufacturer, or the type of a tire is different from the others, or the level of tire wear is excessively different between them.*
- *A run-flat tire, studless tire, snow tire, or tire chains are used.*
- *An emergency tire is used (The tire pressure monitoring system warning light may flash and then continue illuminating).*
- *A tire is repaired using the emergency flat tire repair kit.*
- *The tire pressure is excessively higher than the specified pressure, or the tire pressure is suddenly lowered for some reason such as a tire burst during driving.*
- *The vehicle speed is lower than about 15 km/h (9.3 mph) (including when the vehicle is stopped), or the drive period is shorter than 5 minutes.*
- *The vehicle is driven on an extremely rough road or a slippery, icy road.*
- *Hard steering and rapid acceleration/deceleration are repeated such as during aggressive driving on a winding road.*
- *Load on the vehicle is applied to a tire such as by loading heavy luggage to one side of the vehicle.*
- *System initialization has not been implemented with the specified tire pressure.*

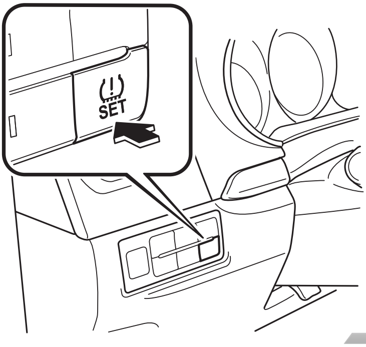
▼Tire Pressure Monitoring System Initialization

In the following cases, system initialization must be performed so that the system operates normally.

- A tire pressure is adjusted.
- Tire rotation is performed.
- A tire or wheel is replaced.
- The battery is replaced or completely drained.
- The tire pressure monitoring system warning light is illuminated.

Initialization method

1. Park the car in a safe place and firmly apply the parking brake.
2. Let the tires cool, then adjust the tire pressure of all four (4) tires to the specified pressure indicated on the tire pressure label located on the driver's door frame (door open).
   Refer to Tires on page 9-9.
3. Switch the ignition ON.
4. Press and hold the tire pressure monitoring system set switch and verify that the tire pressure monitoring system warning light in the instrument cluster flashes twice and a beep sound is heard once.



⚠ CAUTION

If the system initialization is performed without adjusting the tire pressure, the system cannot detect the normal tire pressure and it may not illuminate the tire pressure monitoring system warning light even if a tire pressure is low, or it may illuminate the light even if the pressures are normal.
Adjust the tire pressure on all four tires and initialize the system when the warning light is turned on. If the warning light turns on for a reason other than a flat tire, the tire pressure of all four tires may have decreased naturally.
The system initialization will not be performed if the switch is pressed while the vehicle is being driven.

Rear View Monitor*

The rear view monitor provides visual images of the rear of the vehicle when reversing.

WARNING

Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes:

> *Reversing the vehicle by only looking at the screen is dangerous as it may cause an accident or a collision with an object. The rear view monitor is only a visual assist device when reversing the vehicle. The images on the screen may be different from the actual conditions.*

CAUTION

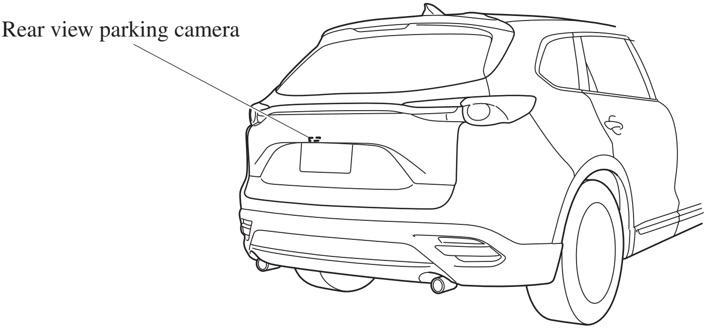
- *Do not use the rear view monitor under the following conditions: Using the rear view monitor under the following conditions is dangerous and could result in injury or vehicle damage or both.*
  - *Icy or snow-covered roads.*
  - *Tire chains or a temporary spare tire is installed.*
  - *The liftgate is not fully closed.*
  - *The vehicle is on a road incline.*
- *When the display is cold, images may course across the monitor or the screen and may be dimmer than usual, which could cause difficulty in confirming the surrounding conditions of the vehicle. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes.*
- *Do not apply excessive force to the camera. The camera position and angle may deviate.*
- *Do not disassemble, modify, or remove it as it may no longer be waterproof.*
- *The camera cover is made of plastic. Do not apply degreasing agents, organic solvents, wax, or glass coating agents to the camera cover. If any are spilled on the cover, wipe off with a soft cloth immediately.*
- *Do not rub the camera cover forcefully with an abrasive or hard brush. The camera cover or lens may be scratched which might affect the images.*

*Some models.

NOTE

- *If water, snow, or mud is stuck on the camera lens, wipe it off using a soft cloth. If it cannot be wiped off, use a mild detergent.*
- *If the camera temperature changes rapidly (Hot to cold, cold to hot), the rear view monitor may not operate correctly.*
- *When replacing the tires, consult an Authorized Mazda Dealer. Replacing the tires could result in deviation of the guide lines which appear on the display.*
- *If the vehicle's front, side, or rear has been involved in a collision, the alignment of the rear view parking camera (location, installation angle) may have deviated. Always consult an Authorized Mazda Dealer to have the vehicle inspected.*
- *If “No Video Signal Available” is indicated in the display, there could be a problem with the camera. Have your vehicle inspected at an Authorized Mazda Dealer.*

▼Rear View Parking Camera Location



▼Switching to the Rear View Monitor Display

Shift the selector lever to reverse (R) with the ignition switched ON to switch the display to the rear view monitor display.

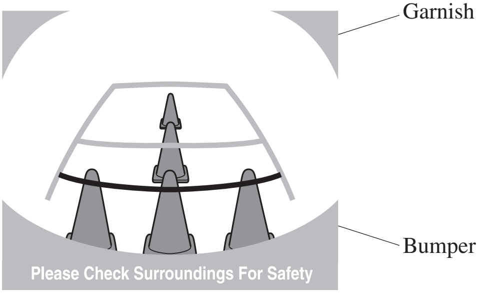
NOTE

When the selector lever is shifted from reverse (R) to another selector lever position, the screen returns to the previous display.

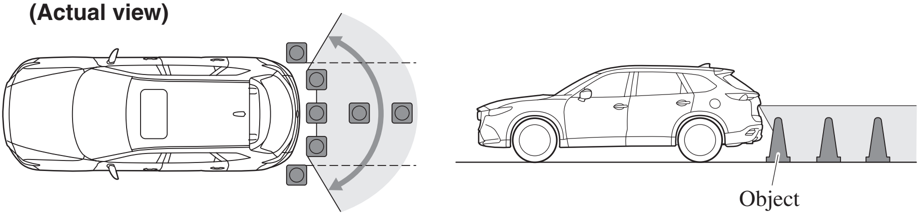
▼Displayable Range on the Screen

The images on the screen may be different from the actual conditions.

(Screen display)



(Actual view)



NOTE

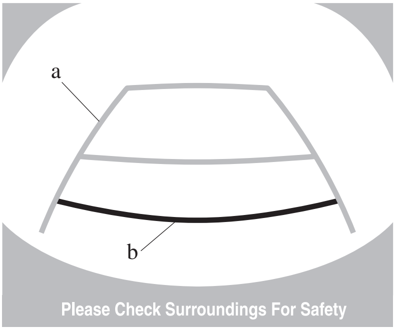
- *The displayable range varies depending on the vehicle and road conditions.*
- *The displayable range is limited. Objects under the bumper or around the bumper ends cannot be displayed.*
- *The distance appearing in the displayed image is different from the actual distance because the rear view parking camera is equipped with a specific lens.*
- *Some optionally installed vehicle accessories may be picked up by the camera. Do not install any optional parts that can interfere with the camera view, such as illuminating parts or parts made of reflective material.*
- *It may be difficult to see the display under the following conditions, however, it does not indicate a malfunction.*

    - *In darkened areas.*
    - *When the temperature around the lens is high/low.*
    - *When the camera is wet such as on a rainy day or during periods of high humidity.*
    - *When foreign material such as mud is stuck around the camera.*
    - *When the camera lens reflects sunlight or headlight beams.*

- *Image display may be delayed if the temperature around the camera is low.*

▼Viewing the Display

Guide lines which indicate the width of the vehicle (yellow) are displayed on the screen as a reference to the approximate width of the vehicle in comparison to the width of the parking space you are about to back into.
Use this display view for parking your vehicle in a parking space or garage.



a) Vehicle width guide lines (yellow)
   These guide lines serve as a reference to the approximate width of the vehicle.
b) Distance guide lines.
   These guide lines indicate the approximate distance to a point measured from the vehicle's rear (from the end of the bumper).

- The red and yellow lines indicate the points about 50 cm (19 in) for the red line and 100 cm (39.3 in) for the yellow lines from the rear bumper (at the center point of each of the lines).

⚠CAUTION

The guide lines on the screen are fixed lines. They are not synced to the driver's turning of the steering wheel. Always be careful and check the area to the vehicle's rear and the surrounding area directly with your eyes while backing up.

Rear View Monitor

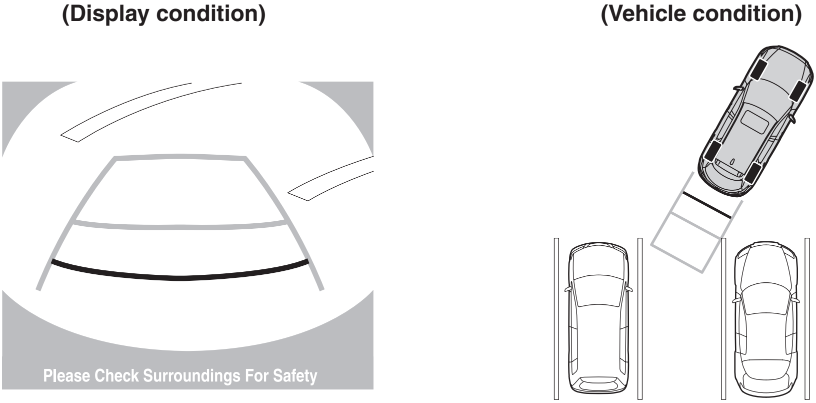
▼Rear View Monitor Operation

The operation of the rear view monitor when reversing the vehicle varies depending on the traffic, road, and vehicle conditions. The amount of steering and the timing also varies depending on conditions, so confirm the surrounding conditions directly with your eyes and steer the vehicle in accordance with the conditions.
Be well aware of the above cautions prior to using the rear view monitor.

NOTE

Images displayed on the monitor from the rear view parking camera are reversed images (mirror images).

1. Shift the selector lever to reverse (R) to switch the display to the rear view monitor display.
2. Confirming the surrounding conditions, reverse the vehicle.

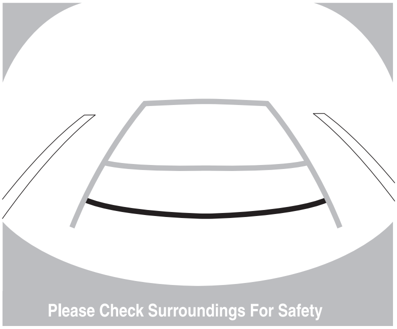


3. After your vehicle begins entering the parking space, continue backing up slowly so that the distance between the vehicle width lines and the sides of the parking space on the left and right are roughly equal.
4. Continue to adjust the steering wheel until the vehicle width guide lines are parallel to the left and right sides of the parking space.

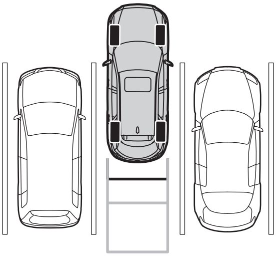
DEP DEALER ePROCESS

5. Once they are parallel, straighten the wheels and back your vehicle slowly into the parking space. Continue checking the vehicle's surroundings and then stop the vehicle in the best possible position. (If the parking space has division lines, check whether the vehicle width guide lines are parallel to them.)

(Display condition)



(Vehicle condition)



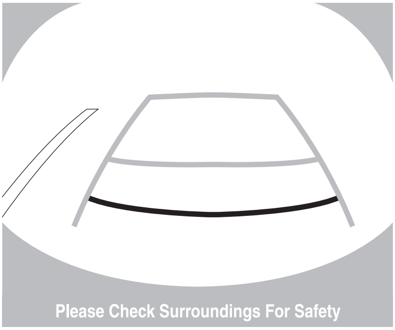
Rear View Monitor

6. When the selector lever is shifted from reverse (R) to another selector lever position, the screen returns to the previous display.

NOTE

Because there may be a difference between the displayed image, such as indicated below, and the actual conditions when parking, always verify the safety at the rear of the vehicle and the surrounding area directly with your eyes.

- *In the image of the parking space (or garage) displayed on the screen, the back end and distance guide lines may appear aligned in the monitor, but they may not actually be aligned on the ground.*
- *When parking in a space with a division line on only one side of the parking space, the division line and the vehicle width guide line appear aligned in the monitor, but they may not actually be aligned on the ground.*

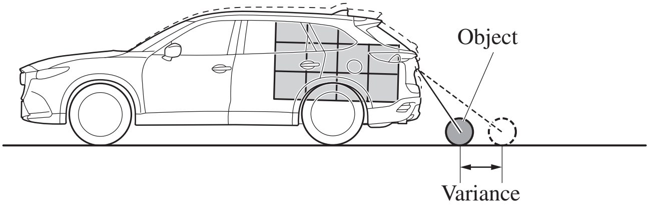

Please Check Surroundings For Safety

▼Variance Between Actual Road Conditions and Displayed Image

Some variance occurs between the actual road and the displayed road. Such variance in distance perspective could lead to an accident. Note the following conditions that may cause a variance in distance perspective.

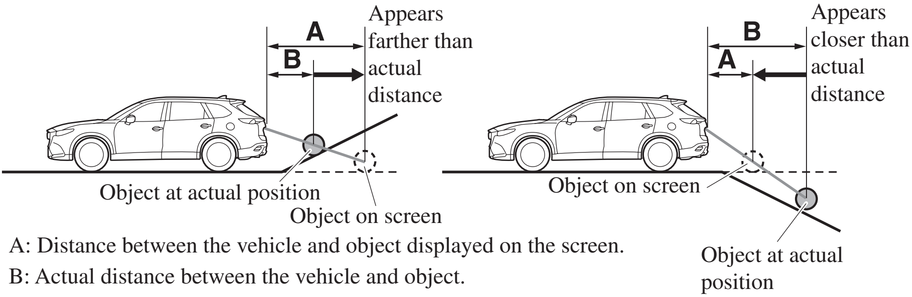
When the vehicle is tilted due to the weight of passengers and load

When the vehicle rear is lowered, the object displayed on the screen appears farther than the actual distance.


Object
Variance

When there is a steep grade behind the vehicle

When there is a steep upgrade (downgrade) behind the vehicle, the object displayed on the screen appears farther (downgrade: closer) than the actual distance.


A
B
Appears farther than actual distance
Object at actual position
Object on screen
B
A
Appears closer than actual distance
Object on screen
Object at actual position

A: Distance between the vehicle and object displayed on the screen.

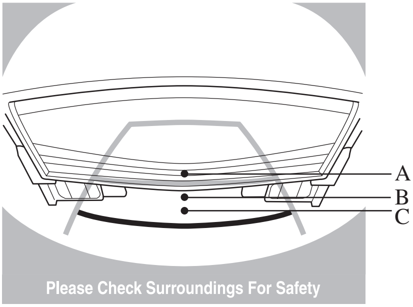
B: Actual distance between the vehicle and object.

DEP DEALER ePROCESS

Three-dimensional object on vehicle rear

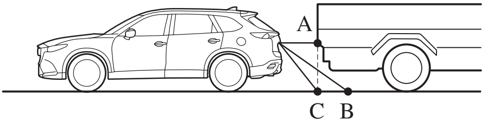
Because the distance guide lines are displayed based on a flat surface, the distance to the three-dimensional object displayed on the screen is different from the actual distance.

(Screen display)



Sensed distance on screen A>B>C

(Actual condition)



(Actual distance) B>C=A

▼ Picture Quality Adjustment

WARNING

Always adjust the picture quality of the rear view monitor while the vehicle is stopped:

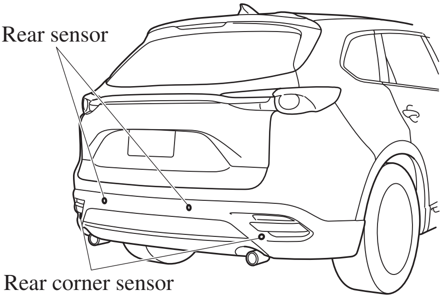
> *Do not adjust the picture quality of the rear view monitor while driving the vehicle. Adjusting the picture quality of the rear view monitor such as brightness, contrast, color, and tint while driving the vehicle is dangerous as it could distract your attention from the vehicle operation which could lead to an accident.*

Picture quality adjustment can be done while the selector lever is in reverse (R).
There are four settings which can be adjusted including, brightness, contrast, tint, and color.
When adjusting, pay sufficient attention to the vehicle surroundings.

1. Select the ︾ icon on the screen to display the tabs.
2. Select the desired tab item.
3. Adjust the brightness, contrast, tint, and color using the slider.
   If you need to reset, press the reset button.
4. Select the ︽ icon on the screen to close the tab.

Parking Sensor System*

The parking sensor system uses ultrasonic sensors to detect obstructions around the vehicle while parking the vehicle in a garage or during parallel parking when the selector lever is in reverse (R). The system is equipped with an assist device to notify the driver of the approximate distance from the vehicle to the surrounding obstruction using a beep sound and obstruction detection indication.



⚠ WARNING

Do not rely completely on the parking sensor system and be sure to confirm the safety around your vehicle visually when driving:

> *This system can assist the driver in operating the vehicle in the backward directions while parking. The detection ranges of the sensors are limited, therefore, driving the vehicle while relying only on the system may cause an accident. Always confirm the safety around your vehicle visually when driving.*

NOTE

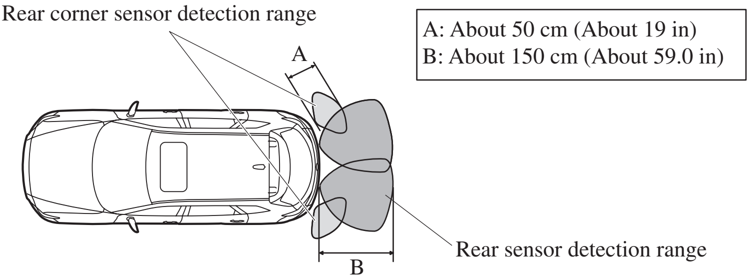
- *Do not install any accessories within the detection ranges of the sensors. It may affect the system operation.*
- *Depending on the type of obstruction and the surrounding conditions, the detection range of a sensor may narrow, or the sensors may not be able to detect obstructions.*

*Some models.

- *The system may not operate normally under the following conditions:*
    - *Mud, ice, or snow is adhering to the sensor area (Returns to normal operation when removed).*
    - *The sensor area is frozen (Returns to normal operation when the ice is thawed).*
    - *The sensor is covered by a hand.*
    - *The sensor is excessively shocked.*
    - *The vehicle is excessively tilted.*
    - *Under extremely hot or cold weather conditions.*
    - *The vehicle is driven on bumps, inclines, gravel, or grass covered roads.*
    - *Anything which generates ultrasound is near the vehicle, such as another vehicle's horn, the engine sound of a motorcycle, the air brake sound of a large-sized vehicle, or another vehicle's sensors.*
    - *The vehicle is driven in heavy rain or in road conditions causing water-splash.*
    - *A commercially-available fender pole or an antenna for a radio transmitter is installed to the vehicle.*
    - *The vehicle is moving towards a tall or square curbstone.*
    - *An obstruction is too close to the sensor.*
- *Obstructions under the bumper may not be detected. Obstructions that are lower than the bumper or thin which may have been initially detected but are no longer detected as the vehicle approaches more closely.*
- *The following types of obstructions may not be detected:*
    - *Thin objects such as wire or rope*
    - *Things which absorb sonic waves easily such as cotton or snow*
    - *Angular shaped objects*
    - *Very tall objects, and those which are wide at the top*
    - *Small, short objects*
- *Always have the system inspected at an Authorized Mazda Dealer if any shock is applied to the bumpers, even in a minor accident. If the sensors are deviated, they cannot detect obstructions.*
- *The system may have a malfunction if the beep does not operate or the indicator light does not illuminate when the park assist sensors switch is turned on. Consult an Authorized Mazda Dealer.*
- *The system may have a malfunction if the beep sound which indicates a system malfunction is heard and the indicator light flashes. Consult an Authorized Mazda Dealer.*
- *The beeper which indicates a system malfunction may not be heard if the ambient temperature is extremely cold, or mud, ice, or snow adheres to the sensor area. Remove any foreign material from the sensor area.*
- *When installing a trailer hitch, consult an Authorized Mazda Dealer.*

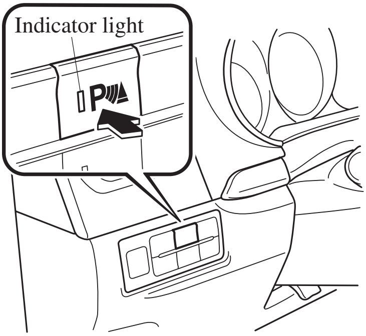
▼Sensor Detection Range

The sensors detect obstructions within the following range.


Rear corner sensor detection range
A
B
Rear sensor detection range
A: About 50 cm (About 19 in)
B: About 150 cm (About 59.0 in)

▼Park Assist Sensor System Operation

When the parking sensor switch is pressed with the ignition switched ON, the buzzer sounds and the indicator light turns on.
When the ignition is switched ON with the parking sensor activated, the buzzer sounds and the indicator light turns on.
Press the parking sensor switch again to stop operation.


Indicator light

Sensor detection condition

The system can be used when the ignition is switched ON and the park sensor switch has been turned on.

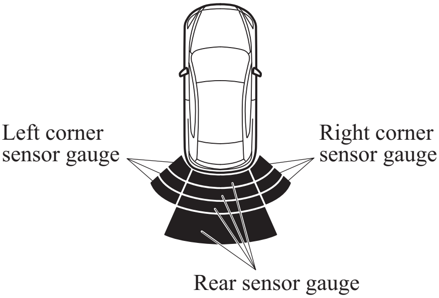
Sensor	Condition
Rear Sensor	The shift lever is in reverse (R).
Rear Corner Sensor	The shift lever is in reverse (R), and the vehicle speed is about 10 km/h (6 mph) or less.

DEP DEALER ePROCESS

Parking Sensor System

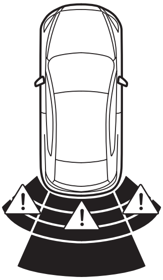
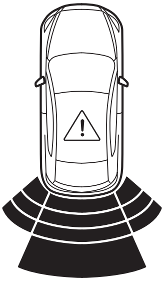
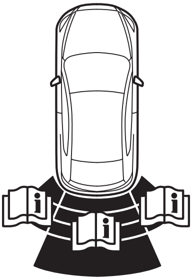
▼Obstruction Detection Indication

The position of a sensor which has detected an obstruction is indicated. The gauge illuminates in different areas depending on the distance to an obstruction detected by the sensor.
As the vehicle approaches closer to an obstruction, the zone in the gauge closer to the vehicle illuminates.


Left corner sensor gauge
Right corner sensor gauge
Rear sensor gauge

System problem notification

If any of the problems indicated in the table occurs, the driver is notified of the problem depending on the type of system as shown.

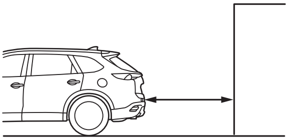
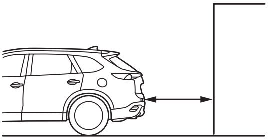
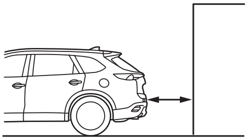
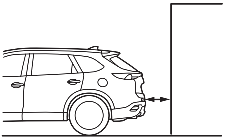
	Detection Indicator	Solution
Disconnection		The system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.
System malfunction		The system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.
Frost/soiling		Foreign matter may be on the sensor area corresponding to the obstruction detection indication shown. If the system does not recover, have the vehicle inspected at an Authorized Mazda Dealer.

Parking Sensor System

▼Parking Sensor Warning Beep

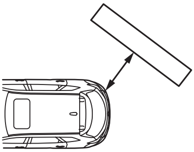
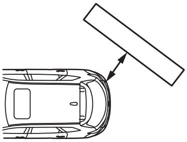
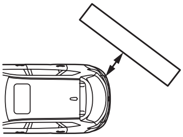
The beeper sounds as follows while the system is operating.

Rear Sensor

Distance detection area	Distance between vehicle and obstruction	Beeper sound[*1]
Farthest distance	Approx. 150—60 cm (59.0—23.6 in) 	Slow intermittent sound
Far distance	Approx. 60—45 cm (23.6—17.7 in) 	Medium intermittent sound
Middle distance	Approx. 45—35 cm (17.7—13.7 in) 	Fast intermittent sound
Close distance	Within approx. 35 cm (13.7 in) 	Continuous sound

*1 The rate at which the intermittent sound beeps increases as the vehicle approaches the obstruction.

Rear Corner Sensor

Distance detection area	Distance between vehicle and obstruction	Beeper sound[*1]
Far distance	Approx. 50—37 cm (19.0—15.0 in) 	Medium intermittent sound
Middle distance	Approx. 37—25 cm (14.0—9.8 in) 	Fast intermittent sound
Close distance	Within approx. 25 cm (9.8 in) 	Continuous sound

[*1] The rate at which the intermittent sound beeps increases as the vehicle approaches the obstruction.

NOTE

If an obstruction is detected in a zone for 6 seconds or more, the beep sound is stopped (except for the close-distance zone). If the same obstruction is detected in another zone, the corresponding beep sound is heard.

▼When Warning Indicator/Beep is Activated

The system notifies the driver of an abnormality by activating the beep sound and the indicator light.

Indicator/Beep	How to check
The indicator light flashes when the parking sensor switch is pressed.	The system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.
The beep sound is not heard.	The system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.
The intermittent sound of the buzzer is heard five times.	Remove any foreign material from the sensor area. If the system does not recover, have the vehicle inspected at an Authorized Mazda Dealer.

MEMO

5 Interior Features

Use of various features for ride comfort, including air-conditioning and audio system.

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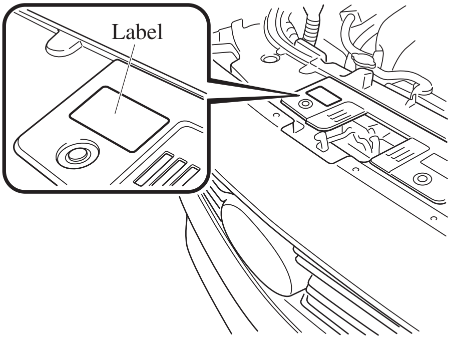
*Some models.

Operating Tips

- Operate the climate control system with the engine running.
- To prevent the battery from being discharged, do not leave the fan control switch on for a long period of time with the ignition switched ON when the engine is not running.
- Clear all obstructions such as leaves, snow and ice from the hood and the air inlet in the cowl grille to improve the system efficiency.
- Use the climate control system to defog the windows and dehumidify the air.
- The recirculate mode should be used when driving through tunnels or while in a traffic jam, or when you would like to shut off outside air for quick cooling of the interior.
- Use the outside air position for ventilation or windshield defrosting.
- If the vehicle has been parked in direct sunlight during hot weather, open the windows to let warm air escape, then run the climate control system.
- Run the air conditioner about 10 minutes at least once a month to keep internal parts lubricated.
- Have the air conditioner checked before the weather gets hot. Lack of refrigerant may make the air conditioner less efficient.

  The refrigerant specifications are indicated on a label attached to the inside of the engine compartment. Check the label before refilling the refrigerant. If the wrong type of refrigerant is used, it could result in a serious malfunction of the air conditioner.

  For details, consult an Authorized Mazda Dealer.



DEP DEALER ePROCESS

Vent Operation (Front)

▼Adjusting the Vents

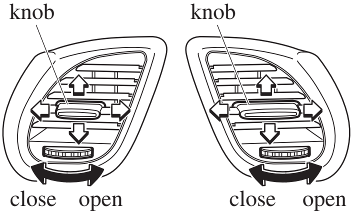
Directing airflow

To adjust the direction of airflow, move the adjustment knob.

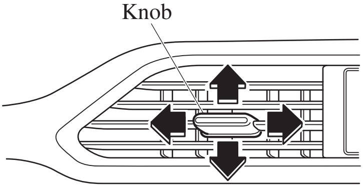
NOTE

- *When using the air conditioner under humid ambient temperature conditions, the system may blow fog from the vents. This is not a sign of trouble but a result of humid air being suddenly cooled.*
- *The air vents can be fully opened and closed by operating the dial. (Side vents only)*

Side Vents

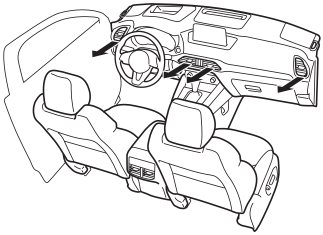


Center Vents

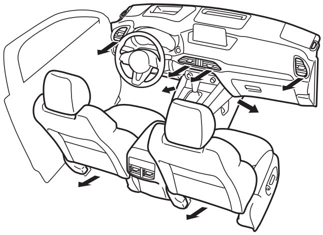


▼Selecting the Airflow Mode

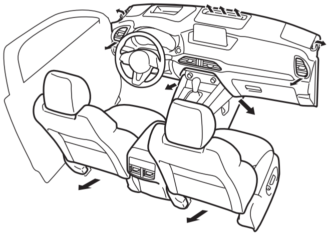
Dashboard Vents



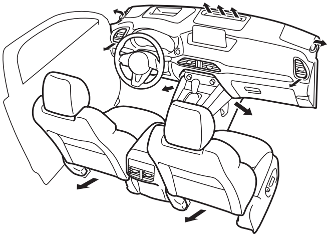
Dashboard and Floor Vents



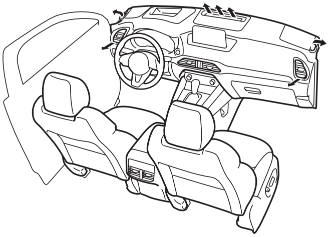
Floor Vents



Defroster and Floor Vents

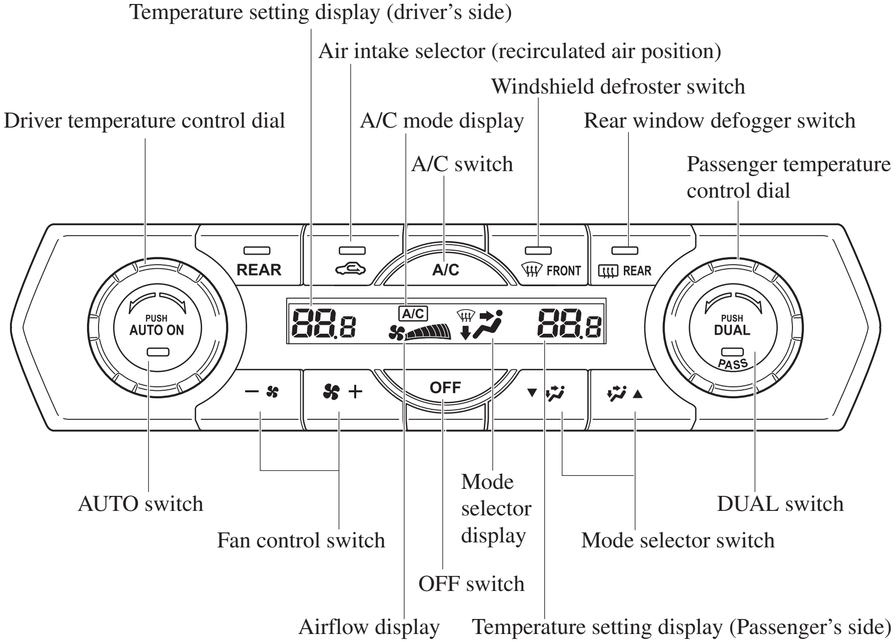


Defroster Vents



Front Air Conditioner

Climate control information is displayed on the display.


Temperature setting display (driver's side)
Air intake selector (recirculated air position)
Windshield defroster switch
Driver temperature control dial
A/C mode display
Rear window defogger switch
A/C switch
Passenger temperature control dial
REAR
A/C
FRONT
REAR
PUSH
AUTO ON
A/C
88.8
88.8
PUSH
DUAL
PASS
−
+
OFF
AUTO switch
Fan control switch
Mode selector display
OFF switch
Mode selector switch
DUAL switch
Airflow display
Temperature setting display (Passenger's side)

▼Control Switches

AUTO switch

By pressing the AUTO switch the following functions will be automatically controlled in accordance with the selected set temperature:

- Airflow temperature
- Amount of airflow
- Selection of airflow mode
- Outside/Recirculated air selection
- Air conditioner operation

NOTE

AUTO switch indicator light

- *When on, it indicates auto operation, and the system will function automatically.*
- *If any of the following switches are operated while in auto control, the AUTO switch indicator turns off.*
    - *Mode selector switch*
    - *Fan control switch*
    - *Windshield defroster switch*
      The functions for switches other than those operated continue to operate in auto control.

OFF switch

Pressing the OFF switch shuts off the climate control system.

Temperature control dial

This dial controls temperature. Turn it clockwise for hot and counterclockwise for cold.

- When the DUAL switch is off:
  Turn the driver temperature control dial to control the temperature throughout the entire cabin.
- When the DUAL switch is on:
  Turn the driver or front passenger temperature control dial to independently control the temperature on each side of the cabin.

NOTE

- *The climate control system changes to the individual operation mode (DUAL switch indicator light illuminated) by turning the front passenger temperature control dial even when the DUAL switch is off, which allows individual control of the set temperature for the driver and front passenger.*
- *The temperature units for the temperature setting display can be changed in conjunction with the temperature units for the outside temperature display. Refer to Outside Temperature Display on page 4-18.*

Fan control switch

The fan has seven speeds. The selected speed will be displayed.

Mode selector switch

The desired airflow mode can be selected (page 5-4).

NOTE

- *With the airflow mode set to the ⇲ position and the temperature control dial set at a medium temperature, heated air is directed to the feet and air at a comparably lower temperature will flow through the central, left and right vents.*
- *To set the air vent to ≋, press the windshield defroster switch.*
- *In the ⇲ or ≋ position, the air conditioner is automatically turned on and the outside air position is automatically selected to defrost the windshield. In the ⇲ or ≋ position, the outside air position cannot be changed to the recirculated air position.*

A/C switch

Pressing the A/C switch while the AUTO switch is turned on will turn off the air-conditioning (cooling/dehumidifying functions).
The air-conditioning can be turned on and off by pressing the A/C switch while the fan control switch is on.

NOTE

- *The air-conditioning operates when the A/C switch is pressed even if the fan is off.*
- *The air conditioner may not function when the outside temperature approaches 0 °C (32 °F).*

Air intake selector

Outside or recirculated air positions can be selected. Press the switch to select outside/recirculated air positions.

Recirculated air position (indicator light illuminated)

Outside air is shut off. Use this position when going through tunnels, driving in congested traffic (high engine exhaust areas) or when quick cooling is desired.

Outside air position (indicator light turned off)

Outside air is allowed to enter the cabin. Use this mode for ventilation or windshield defrosting.

⚠ WARNING

Do not use the recirculated air position in cold or rainy weather:

> *Using the recirculated air position in cold or rainy weather is dangerous as it will cause the windows to fog up. Your vision will be hampered, which could lead to a serious accident.*

DUAL switch

Use the DUAL switch to change the mode between the individual operation (driver and passenger) and interconnection (simultaneous) modes.

Individual operation mode (indicator light illuminated)

The set temperature can be controlled individually for the driver and front passenger.

Interconnection mode (indicator light turned off)

The set temperature for the driver and front passenger is controlled simultaneously.

Windshield defroster switch

Press the switch to defrost the windshield and front door windows.
Refer to Windshield Defrosting and Defogging on page 5-8.

Rear window defogger switch

Press the rear window defogger switch to defrost the rear window.
Refer to Rear Window Defogger on page 4-60.

▼Operation of Automatic Air-conditioning

1. Press the AUTO switch. Selection of the airflow mode, air intake selector and amount of airflow will be automatically controlled.
2. Use the temperature control dial to select a desired temperature.
   Press the DUAL switch or turn the front passenger temperature control dial to control the set temperature individually for the driver and front passenger.

To turn off the system, press the OFF switch.

NOTE

- *Setting the temperature to maximum hot or cold will not provide the desired temperature at a faster rate.*
- *When selecting heat, the system will restrict airflow until it has warmed to prevent cold air from blowing out of the vents.*

Climate Control System

▼Windshield Defrosting and Defogging

Press the windshield defroster switch. In this position, the outside air position is automatically selected, and the air conditioner automatically turns on. The air conditioner will directly dehumidify the air to the front windshield and side windows on page 5-4.
Airflow amount will be increased.

⚠ WARNING

Set the temperature control to the hot or warm position when defogging (♨ position):

Using the ♨ position with the temperature control set to the cold position is dangerous as it will cause the outside of the windshield to fog up. Your vision will be hampered, which could lead to a serious accident.

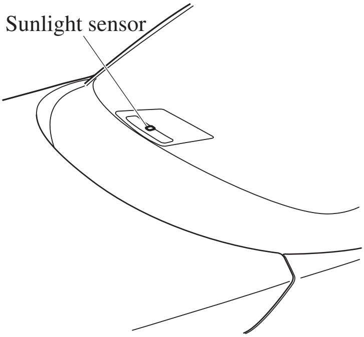
NOTE

Use the temperature control dial to increase the air flow temperature and defog the windshield more quickly.

▼Sunlight/Interior Temperature Sensor

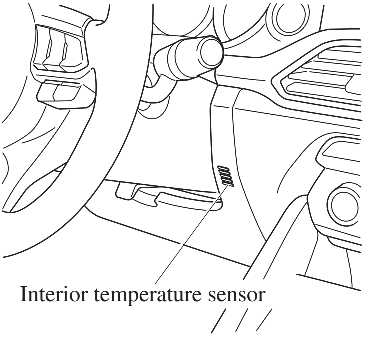
Sunlight sensor

Do not place objects on the sunlight sensor. Otherwise, the interior temperature may not adjust correctly.



Interior temperature sensor

Do not cover the interior temperature sensor. Otherwise, the interior temperature may not adjust correctly.



Vent Operation (Rear)

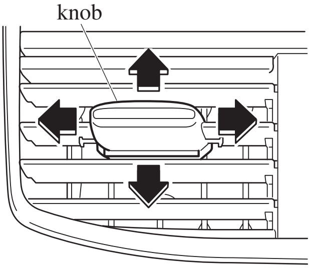
▼Adjusting the Vents

Directing airflow

You can direct air flow by moving the adjustment knob.

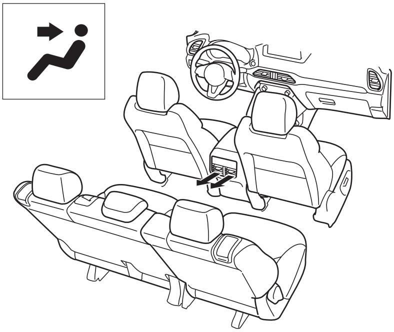
NOTE

When using the air conditioner, mist may come out from the vents. This is not a sign of trouble but a result of humid air being suddenly cooled.

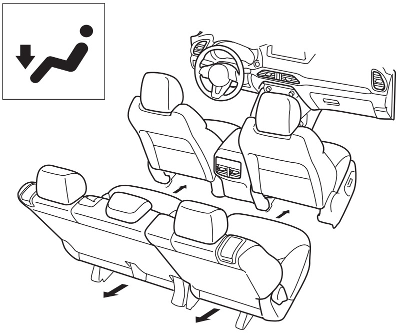


▼Selecting the Airflow Mode

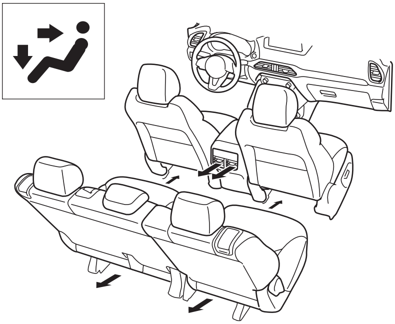
Dashboard Vents



Floor Vents

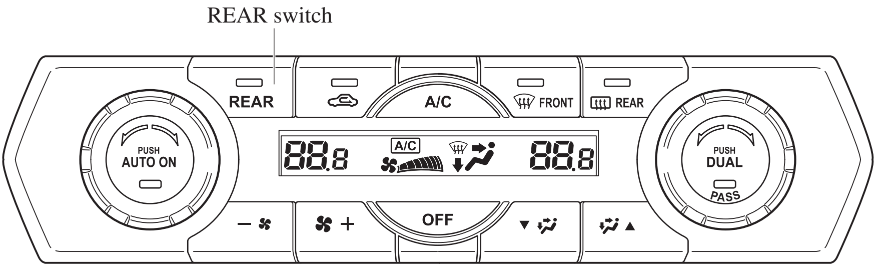


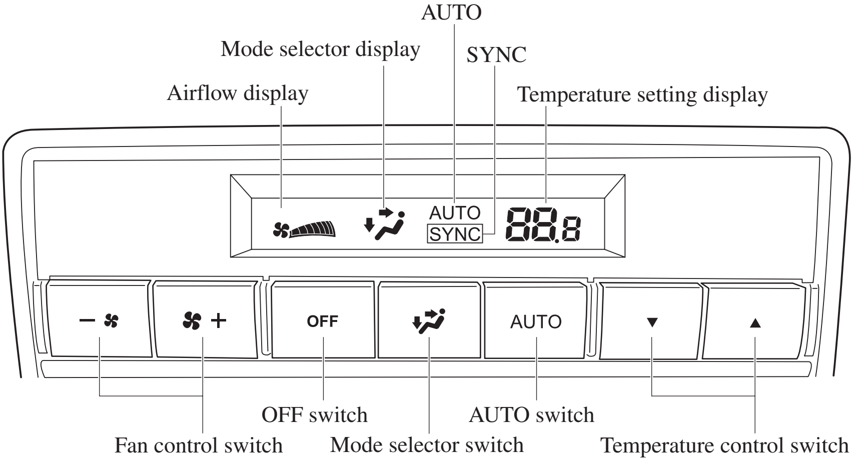
Dashboard and Floor Vents



Rear Air Conditioner

Climate control information is displayed on the display.


REAR switch
REAR
A/C
FRONT
REAR
PUSH
AUTO ON
PUSH
DUAL
PASS
88.8
A/C
88.8
OFF


AUTO
Mode selector display
SYNC
Airflow display
Temperature setting display
AUTO
SYNC
88.8
OFF
AUTO
OFF switch
AUTO switch
Fan control switch
Mode selector switch
Temperature control switch

▼Control Switches

Rear switch

Press the rear switch to operate the rear air-conditioning.
The indicator illuminates to indicate that the rear air-conditioning is operating.

AUTO switch

By pressing the AUTO switch the following functions will be automatically controlled in accordance with the set temperature:

- Airflow temperature
- Amount of airflow
- Selection of airflow mode

OFF switch

Pressing the OFF switch shuts off the climate control system.

Temperature control switch

This switch controls temperature. Press ▲ for hot and ▼ for cold.

Fan control switch

The fan has five speeds. The selected speed will be displayed.

Mode selector switch

The desired airflow mode can be selected. Refer to Selecting the Airflow Mode on page 5-10.

▼Operation of Automatic Air-conditioning

Operation from front seats

1. Turn the front air-conditioning on.
2. Press the rear switch. The rear air-conditioning operates.
3. Selection of the airflow mode, airflow amount and temperature will be automatically controlled to the same temperature setting as the front air conditioner for the driver's side.

NOTE

- *If the AUTO switch is pressed while the front A/C switch is off, the rear air-conditioning operates only to circulate air.*
- *Setting the temperature to the maximum high or low will not provide the desired temperature at a faster rate.*
- *When selecting heat, the system will restrict airflow until it has warmed to prevent cold air from blowing out of the vents.*
- *When the rear air conditioner is controlled to the same temperature setting as the front air conditioner for the driver's side, "SYNC" is displayed on the rear screen.*

DEP DEALER ePROCESS

Operation from rear seats

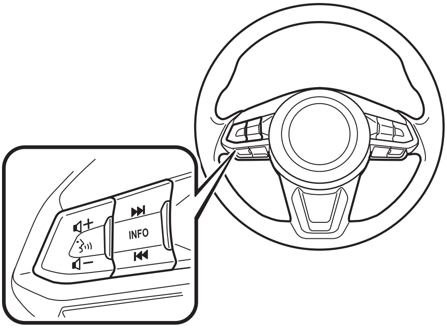
1. Turn the front air-conditioning on.
2. Press the AUTO switch. The selection of the airflow mode and airflow amount will be automatically controlled.
3. Use the temperature control switch to set the desired temperature.

NOTE

- *If the AUTO switch is pressed while the front A/C switch is off, the rear air-conditioning operates only to circulate air.*
- *Setting the temperature to the maximum high or low will not provide the desired temperature at a faster rate.*
- *When selecting heat, the system will restrict airflow until it has warmed to prevent cold air from blowing out of the vents.*
- *When the rear air conditioner is operated automatically, “AUTO” is displayed on the rear screen.*
- *When the rear air conditioner is controlled to the same temperature setting as the front air conditioner for the driver's side, “SYNC” is displayed on the rear screen.*

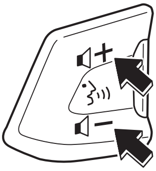
To turn off the system, press the OFF switch.

Audio Control Switch



▼Adjusting the Volume

To increase the volume, press up the volume switch (+).
To decrease the volume, press down the volume switch (−).

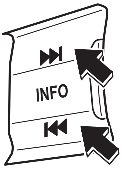


▼Seek Switch

AM/FM radio

Press the seek switch (⏮, ⏭). The radio switches to the next/previous stored station in the order that it was stored.
Press and hold the seek switch (⏮, ⏭) to seek all usable stations at a higher or lower frequency whether programmed or not.

Radio stations which have been previously stored in the favorite radio can be called up by pressing the seek switch (⏮, ⏭) while any radio station stored in the favorite radio is being received. Radio stations can be called up in the order they were stored with each press of the switch (⏮, ⏭).



USB Audio/Bluetooth® Audio

Press the seek switch (⏭) to skip forward to the beginning of the next track.
Press the seek switch (⏮) within a few seconds after playback begins to track down to the beginning of the previous track.
Press the seek switch (⏮) after a few seconds have elapsed to start playback from the beginning of the current track.
Press and hold the seek switch (⏮, ⏭) to continuously switch the tracks up or down.

Pandora®/Aha™/Stitcher™ Radio

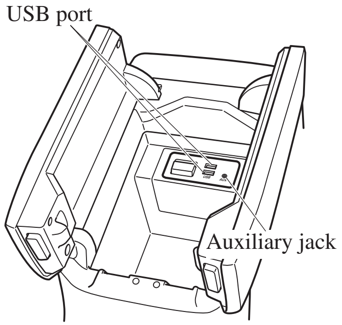
Press the seek switch (▶▶I) to skip forward to the beginning of the next track.
Press and hold the seek switch (▶▶I) to evaluate the playback of the current song as "Like".
Press and hold the seek switch (I◀◀) to evaluate the playback of the current song as "Dislike".

AUX/USB

Audio can be heard from the vehicle's speakers by connecting a commercially-available portable audio unit to the auxiliary jack.
A commercially-available, non-impedance (3.5Φ) stereo mini plug cable is required. Contact an Authorized Mazda Dealer for details.
In addition, audio can be played from the vehicle audio device by connecting a USB device to the USB port.

NOTE

The SD card slot is for the navigation system. For vehicles with the navigation system, the SD card (Mazda genuine) with stored map data is inserted into the SD card slot and used.



① How to use AUX mode......... page 5-34
② How to use USB mode.......... page 5-35

DEP DEALER ePROCESS

Before Using the Audio System

⚠ WARNING

Do not adjust the portable audio unit or a similar product while driving the vehicle:

Adjusting the portable audio unit or a similar product while driving the vehicle is dangerous as it could distract your attention from the vehicle operation which could lead to a serious accident. Always adjust the portable audio unit or a similar product while the vehicle is stopped.

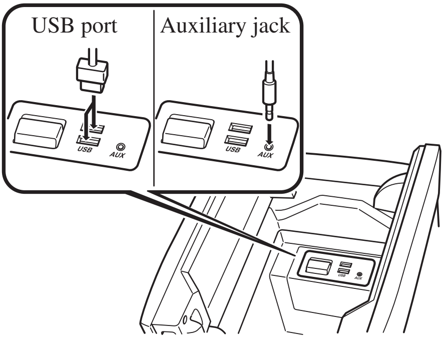
⚠ CAUTION

Depending on the portable audio device, noise may occur when the device is connected to the vehicle accessory socket. (If noise occurs, do not use the accessory socket.)

NOTE

- *This mode may not be usable depending on the portable audio device to be connected.*
- *Before using the auxiliary jack/USB port, refer to the instruction manual for the portable audio device.*
- *Use a commercially-available, non-impedance (3.5Φ) stereo mini plug for connecting the portable audio unit to the auxiliary jack. Before using the auxiliary jack, read the manufacturer's instructions for connecting a portable audio unit to the auxiliary jack.*
- *To prevent discharging of the battery, do not use the auxiliary input for long periods with the engine off or idling.*
- *When connecting a device to the auxiliary jack or USB port, noise may occur depending on the connected device. If the device is connected to the vehicle's accessory socket, the noise can be reduced by unplugging it from the accessory socket.*

▼How to connect USB port/Auxiliary jack



Connecting a device

1. Open the console lid.
2. Connect the connector on the device to the USB port.

Connecting with a connector cable

1. Open the console lid.
2. Connect the device plug/connector cable to the auxiliary jack/USB port. Pass the device plug/connector cable through the notch in the console and connect.

WARNING

Do not allow the connection plug cord to get tangled with the shift lever:

Allowing the plug cord to become tangled with the shift lever is dangerous as it could interfere with driving, resulting in an accident.

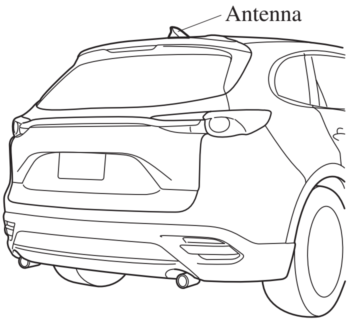
CAUTION

Do not place objects or apply force to the auxiliary jack/USB port with the plug connected.

NOTE

- *Insert the plug into the auxiliary jack/USB port securely.*
- *Insert or pull out the plug with the plug perpendicular to the auxiliary jack/USB port hole.*
- *Insert or remove the plug by holding its base.*

Antenna



Basic Operation Method

NOTE
The explanation of functions described in this manual may differ from the actual operation, and the shapes of screens and buttons and the letters and characters displayed may also differ from the actual appearance.
Additionally, depending on future software updates, the content may successively change without notice.

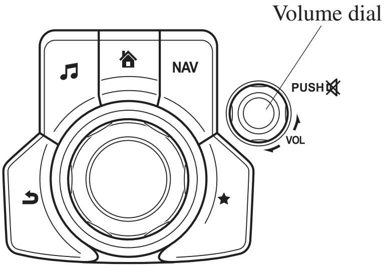
Audio Set has three different human interfaces.

- Commander switch
- Touch panel
- Voice recognition with steering switch and microphone
  Refer to Voice Recognition on page 5-68.

▼Commander switch operation

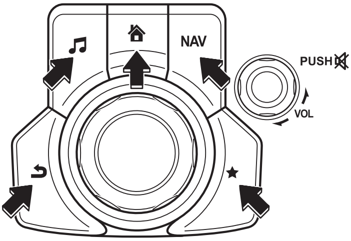
NOTE
For safety reasons, some operations are disabled while the vehicle is being driven.

Volume dial operation



Press the volume dial to switch the audio MUTE on and off.
Turn the volume dial to adjust the volume. The volume increases by turning the dial clockwise, and decreases by turning it counterclockwise.

Switches around commander knob



The following operations can be done by pressing the switches around the commander knob.

⌂ : Displays the home screen.

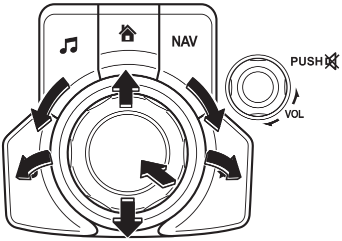
♫ : Displays the Entertainment screen.

NAV : Displays the Navigation screen (Only navigation-equipped vehicles). For operation of the Navigation screen, refer to the navigation system manual. If the SD card for the navigation system is not inserted, the compass indicating the direction in which the vehicle is moving is displayed.

★ : Displays the Favorites screen. Long-press to store particular items in Favorites. (Radio, phonebook and destination of the navigation system can be programmed.)

↩ : Returns to previous screen.

Commander knob operation



(Selection of icons on screen)

1. Tilt or turn the commander knob and move the cursor to the desired icon.
2. Press the commander knob and select the icon.

NOTE

Long-press operation of the commander knob is also possible for some functions.

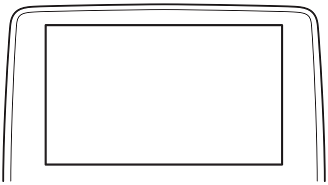
▼Touch panel operation

CAUTION

Do not press the screen strongly or press it with a sharp-pointed object. Otherwise, the screen could be damaged.

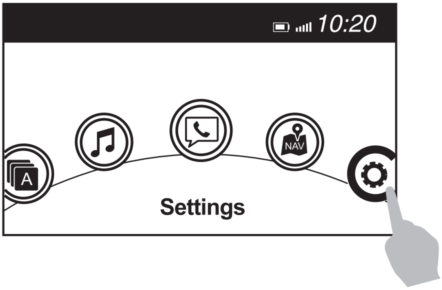
NOTE

For safety reasons, operation of the center display is disabled while the vehicle is being driven. However, items not displayed in gray can be operated using the commander switch while the vehicle is being driven.



Touch & Tap

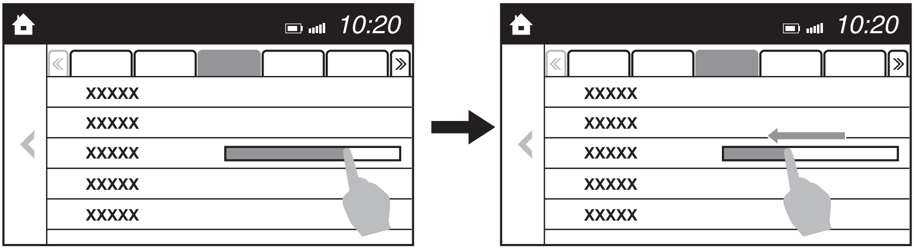
1. Touch or tap on the item indicated on the screen.
2. The operation is launched and the next item is displayed.



DEP DEALER ePROCESS

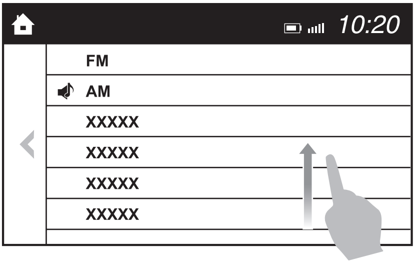
Slide

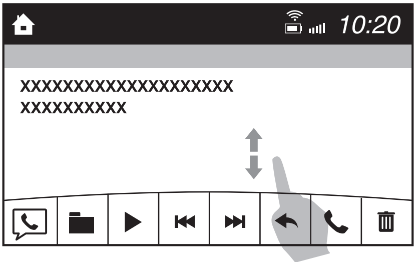
1. Touch the setting item displaying a slider bar.
2. Touch the slider with your finger and move to the desired level.


10:20
XXXXX
XXXXX
XXXXX
XXXXX
XXXXX
10:20
XXXXX
XXXXX
XXXXX
XXXXX
XXXXX

Swipe

1. Touch the screen with your finger and move up or down.
2. Items which were not displayed can be displayed.


10:20
FM
AM
XXXXX
XXXXX
XXXXX
XXXXX


10:20
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXX

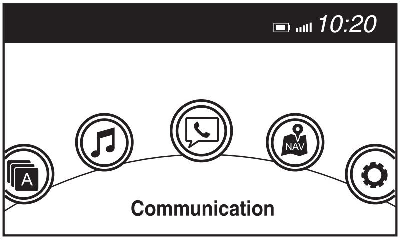
Return to previous screen

1. Touch the ◁.

Displaying the home screen

1. Touch the ⌂.

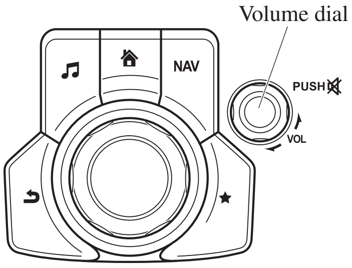
Home screen



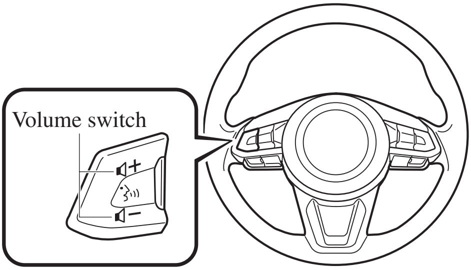
Icon	Function
A	**Applications** Information such as average fuel economy, maintenance, and warnings can be verified. Depending on the grade and specification, the screen display may differ.
♫	**Entertainment** Operates audio such as the radio. The audio source most recently used is displayed. An audio source which cannot be used at that time is skipped and the previous audio source is displayed. To change the audio source, select the ♫ icon displayed at the bottom of the screen.
☎	**Communication** Bluetooth® related functions are available.
NAV	**Navigation** Navigation screen is displayed (vehicles with navigation system). If the SD card for the navigation system is not inserted, the compass indicating the direction in which the vehicle is moving is displayed. The compass may not indicate the correct bearing when the vehicle is stopped or traveling at a slow speed.
⚙	**Settings** Overall setting menu (Such as display, sound, Bluetooth® and Language). Depending on the grade and specification, the screen display may differ.

Volume/Display/Sound Controls

Commander switch



Audio control switch



▼Volume adjustment

Turn the commander switch volume dial. The volume switch on the steering switch can also be pressed.

▼Display setting

Select the ⚙ icon on the home screen to display the Settings screen.
Select the **Display** tab to select the item you would like to change.

Display OFF/Clock

The center display can be turned off.
Select **Turn Display Off** to turn the display off.
When **Turn Display Off and Show Clock** is selected the center display turns off and the clock is displayed.
The center display can be turned back on as follows:

- Touch the center display.
- Operate the commander switch.

Daytime/nighttime (System) screen setting

The daytime or nighttime screen can be selected.

Auto : Switches screen automatically according to headlight illumination condition*1
Day : Daytime screen setting
Night : Nighttime screen setting

*1 The display is constantly on daytime screen when the illumination dimmer is cancelled.

Brightness adjustment

Adjust the center display brightness using the slider.

Contrast adjustment

Adjust the center display contrast using the slider.

Display setting reset

All of the screen setting values can be reset to their initial settings.

1. Select **Restore Factory settings**.
2. Select **Yes**.

▼Audio sound adjustment

Select the ⚙ icon on the home screen to display the Settings screen.
Select the **Sound** tab to select the item you would like to change.

Indication	Setting value
Bass (Low pitch sound)	+ Side: Low pitch enhancement − Side: Low pitch reduction
Treble (Treble sound)	+ Side: Treble enhancement − Side: Treble reduction
Fade (Front/Rear volume balance)	Front: Front speaker volume enhancement Rear: Rear speaker volume enhancement
Balance (Left/right volume balance)	Right: Right speaker volume enhancement Left: Left speaker volume enhancement
ALC[*1] (Automatic volume adjustment)	Off—Adjustment at seven levels
Bose® Centerpoint[*2] (Automatic surround level adjustment)	On/Off
Bose® AudioPilot[*2] (Automatic volume adjustment)	On/Off
Beep (Audio operation sound)	On/Off

*1 Standard audio
*2 Bose® Sound System

ALC (Automatic volume adjustment)
The automatic level control (ALC) is a feature that automatically adjusts audio volume and sound quality according to the vehicle speed. The volume increases in accordance with the increase in vehicle speed, and decreases as vehicle speed decreases.

Bose®Centerpoint (Automatic surround level adjustment)
Centerpoint®[*3] lets vehicle owners enjoy a Bose® surround sound experience from their existing MP3s and satellite radio.
Specifically engineered to meet the unique demands of reproducing surround sound in a vehicle.
Converts stereo signals to multiple channels allowing greater precision when reproducing the sound.
An enhanced algorithm to simultaneously create a wider, more spacious sound field.

*3 Centerpoint® is a registered trademark of Bose Corporation.

Bose®AudioPilot (Automatic volume adjustment)
When driving, background noise can interfere with enjoying music.
AudioPilot®[*4] noise compensation technology continuously adjusts the music to compensate for background noise and vehicle speed.
It reacts only to sustained noise sources and not intermittent ones, such as speed bumps.
An enhanced DSP algorithm allows faster and more effective compensation for unusual situations, such as driving on a very rough road or at high speeds.

*4 AudioPilot® is a registered trademark of Bose Corporation.

Operating the Radio

▼Radio ON

Select the ♫ icon on the home screen to display the Entertainment screen. When selecting the desired radio, the following icons are indicated in the lower part of the center display.

AM/FM Radio

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
📶	Displays the station list. Select Update Station List to display the frequencies of up to ten radio stations on the auto memory preset list. Select the desired frequency.
★	Displays the Favorites list. Long-press to store radio station currently being aired.
HD	Switches the HD Radio on and off. Displays the multi-cast channel list of the HD Radio.
▶▶	You can search for receivable radio stations. Scanning stops at each station for about five seconds. Select again to continue receiving the radio station.
◀▶	You can change the radio frequency manually. Rotate the commander knob, slide the screen, or touch the radio frequency. Press ◀ or ▶ to change the radio frequency one step at a time. When ◀ or ▶ is long-pressed, the radio frequency changes continually. It stops when you remove your hand from the icon or the commander knob.
🏷	Launches the iTunes Tagging function (for Apple devices with USB use only). Can be used when the HD Radio is on.
⏮	Automatic radio station selection. When long-pressed, the radio frequency changes continually. It stops when you remove your hand from the icon or the commander knob.
⏭	
📊	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

Favorites Radio

Selected stations can be registered for convenient operation. Up to 50 stations can be registered. The Favorites list is common to AM, FM, and satellite radio.

Registering to Favorites

Long-press the ★ icon to register the current radio station. The registration can also be performed using the following procedure.

1. Select the ★ icon to display the Favorites list.
2. Select Add/Edit Radio Favorites.
3. Select Add <active station>.
4. The station is added to the bottom of the Favorites list.

NOTE

If the battery is disconnected, your Favorites list will not be deleted.

Selecting radio station from Favorites

1. Select the ★ icon to display the Favorites list.
2. Select the radio frequency to tune in the radio station.

Deleting from Favorites

1. Select the ★ icon to display the Favorites list.
2. Select Add/Edit Radio Favorites.
3. Select Delete.
4. Select the radio frequency you want to delete.
5. Select Delete.

Changing Favorites list order

1. Select the ★ icon to display the Favorites list.
2. Select Add/Edit Radio Favorites.
3. Select Move.
4. Select a radio frequency. The selected radio station can be moved.
5. Slide the radio station or move it using the commander switch, then select OK.

Radio Broadcast Data System (RBDS)*

Radio text information display

Radio text information sent from a broadcasting station is displayed in the center display.

NOTE

Radio text information is a function of FM radio of FM radio only. There is no text function on AM radio. Text information is not displayed in the following:

- *During* HD Radio *reception*
- *Not an RBDS broadcast*
- *RBDS broadcast, but radio text is not transmitted from the radio station*

Genre Seek

Some FM stations transmit Genre codes (Program type like Rock, News, and so on). This code enables alternative stations transmitting the same Genre code to be found quickly.

(To scan for Genre Seek:)

1. Select the 📶 icon while in the FM mode.
2. Select Genre Seek to open the genre list.
3. Select the genre type you want to select.
4. Select the ⏮, ⏭ icon.

NOTE

To change the desired genre, select the 𝄞 icon.

Ex.)
89.3 is currently being received. With Rock selected as the Genre, the radio stations broadcasting Rock are at the following frequencies.
98.3[*1], 98.7, 104.3[*1], 107.1

*1 Radio stations with good reception

The frequency changes as follows each time **Genre Seek** is pressed.
89.3→98.3→104.3→98.3

NOTE

- *Only one Genre can be selected.*
- *It may not be possible to receive any station even if the Genre Seek function is used.*
- *If a program in the selected genre is not broadcast to a region, reception is not possible even if the Genre Seek function is used.*
- *The Genre Seek function searches for genre code (program type) which FM analog broadcasts transmit.* HD Radio *specialty programs (HD2-HD8) cannot be searched because they are not FM analog broadcasts.*
- *If radio stations which are selected by scanning using the Genre Seek function are* HD Radio *broadcasting stations, they are changed from analog broadcasts to* HD Radio *broadcasts after a few seconds if the reception conditions are good. The genre is displayed after the switch, however, the genre for FM analog broadcasts may differ.*

▼HD Radio

What is HD Radio™ Technology and how does it work?

HD Radio™ Technology is the digital evolution of analog AM/FM radio. Your radio product has a special receiver which allows it to receive digital broadcasts (where available) in addition to the analog broadcasts it already receives. Digital broadcasts have better sound quality than analog broadcasts as digital broadcasts provide free, crystal clear audio. For more information, and a guide to available radio stations and programming, please visit www.hdradio.com.

Benefits of HD Radio™ Technology

(Information)
The song title, artist name, album name and genre will appear on the screen when available by the radio station.
(Multicast)
On the FM radio frequency most digital stations have "multiple" or supplemental programs on each FM station.

Listening to HD Radio™ Technology

If HD icon turns on by selecting a radio station which is an HD Radio broadcasting station, the analog broadcast is switched to an HD Radio broadcast automatically after a few seconds and then received.
If the HD Radio broadcast is stopped and changed to an analog broadcast, press down HD to turn off HD.

Multicast channel selection (FM)

If multi-cast channels are available for an HD Radio broadcast currently being received, the multi-cast channel list is displayed. Select the desired radio station.

NOTE

- *If an analog broadcast is received once and* HD Radio *is received while HD1 is selected, the audio unit switches to the* HD Radio *station automatically.*
- *When the* HD *icon is illuminated, there could be a noticeable difference in sound quality and volume when a change from digital to analog signals occurs. If the sound quality and volume become noticeably diminished or cut off, select the* HD *icon to turn off* HD Radio *(*HD *icon is not illuminated).*
- *Once an analog broadcast is received when HD1 is selected from the Favorite channels, it is switched to* HD Radio *automatically. If the radio reception conditions are poor, or HD is off, switching to* HD Radio *broadcasts is not possible.*
- *When an HD specialty channel (HD2 to HD8) is selected from the Favorite channels, "Signal Lost" is displayed and no audio is output until* HD Radio *is received. If the radio reception conditions are poor, "Signal Lost" continues to be displayed.*
- *If the* HD *icon is not illuminated, information such as song titles of the* HD Radio *station are received, however, the audio output is analog.*

iTunes Tagging (for Apple devices with USB use only)

By tagging a song currently being aired, the song can later be purchased from the iTunes Store. One hundred tags can be stored. A maximum of 100 tags (for 100 songs) can be stored for later downloading.

1. Select the 🏷 icon. The tag is stored in the audio unit.
2. Connect the device via the vehicle's USB. Any stored tag(s) will be sent automatically to the connected device.
3. Once at home or after parking the vehicle safely, log onto the iTunes Store with your device. Your previously tagged song(s) can now be easily purchased.

NOTE

- *Both AM and FM* HD Radio *can be used.*
- *Because iTunes tagging only supports purchases from the iTunes Store, direct downloading of music from the vehicle's audio unit is not possible.*
- *If the available memory for the connected device is insufficient, the tag is not sent.*
- *If an error occurs while the tag is being sent, reconnect the device.*

Operating the Satellite Radio*

▼What is satellite radio?

With over 130 channels, SiriusXM Satellite Radio brings you more of what you love. Get channels and channels of commercial-free music, plus sports, news, talk, entertainment and more.
Commercial-free music from nearly every genre —rock to pop, hip-hop to country, jazz, classical and more. Plus live performances and artist-dedicated channels.
Live sports Play-by-Play & Expert Talk —every NFL game, every NASCAR® race, 24/7 sports talk, college sports and more.
Exclusive entertainment, comedy and talk —The biggest names, compelling talk, hilarious comedy.
World-class news plus local traffic and weather.
Sign up for SiriusXM Satellite Radio today!

NOTE

- *To listen to SiriusXM, a prior subscription (fee-based) is required.*
- *The channels which you can receive depend on the package you subscribe to.*
- *Satellite radio is broadcast as Sirius, XM, and SiriusXM in the U.S.A., and Sirius and XM in Canada. In this owner's manual, only the name SiriusXM is used.*
- *For traffic and weather channels, map information is not displayed and only audio broadcasts can be received.*
- *Call 877-447-0011 (U.S.A.)/ 877-209-0079 (Canada) to activate. For more information, visit www.siriusxm.com (U.S.A.)/www.siriusxm.ca (Canada). Satellite radio is only available in regions providing satellite radio service (some areas of the United States and Canada). Contact Authorized Mazda Dealer for details.*

*Some models.

▼How to Activate Satellite Radio

You must call SiriusXM to activate your service. Activation is free and takes only a few minutes.
New customers can receive a free introductory subscription with a limited term trial offer by calling 877-447-0011 (U.S.A.)/877-209-0079 (Canada) to activate.
SiriusXM service uses an ID code to identify your radio. This code is needed to activate SiriusXM service, and report any problems.

Please have the following information ready:

- Radio ID (8-digit electronic serial No.) Refer to Displaying the Radio ID (ESN) on page 5-31.
- Valid credit card information (may not be required at initial sign-up)

Be sure you are parked outside with a clear view of open sky, you will be instructed to turn on your radio (in SiriusXM mode and tuned to channel 184 (Sirius)/1 (XM and SiriusXM)). Activation typically takes only 2—5 minutes.

▼Displaying the Radio ID (ESN)

When channel 0 is selected, the radio ID is displayed. Use the PREVIOUS or NEXT channel buttons to select channel 0.

▼SiriusXM operation

Select the ♫ icon on the home screen to display the Entertainment screen. When XM is selected, the following icons are indicated in the bottom part of the center display.

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
☰	Displays the channel list of the current category.
★	Displays the favorites list. Long-press to store the channel currently being aired. Refer to Operating the Radio on page 5-26.
🔒	Indicates that the parental lock function is in use. Switching of Lock/Unlock and PIN code setting changes can be performed.
▶	Plays each channel in the current channel list for 5 seconds. Select again to continue receiving the channel.
⏮	Plays the previous channel.
⏭	Plays the next channel.
▦	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

Selection from channel list

Receivable channels can be displayed on the channel list screen. You can easily select the channel you want to listen from the list. Each category can be also displayed.

1. Select the ☰ icon to display the channel list.
2. Select a desired channel.

(Select from category list)

1. Select the ☰ icon to display the channel list.
2. Select Category: to display the category list.
3. Select a desired category.

▼ Parental lock

If a channel is locked, the channel is muted.
To use the parental lock function, the PIN code must be initialized first.
By using the session lock, the parental lock can be enabled or disabled during the current drive cycle (from when the ignition is switched on to switched off). When the session lock is on, the parental lock is available. When the session lock is off, the parental lock is temporarily cancelled.
When canceling the parental lock or session lock, or when changing the PIN code, PIN code input is required.

PIN code reset

If the registered code has been forgotten, reset the code to the default [0000] code.

1. Select the 🔒 icon.
2. If the selected channel is locked, input the PIN code to cancel the parental lock temporarily.
3. Select Reset PIN Code.
4. Input the default code [0000] using the number buttons.
5. Select OK.
6. Input the new PIN code using the number buttons.
7. Select OK.

How to use AUX mode

▼Playback

1. Select the ♫ icon on the home screen to display the Entertainment screen.
2. Select AUX to switch to the AUX mode. The following icons are displayed in the lower part of the center display.

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
▦	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

NOTE

- *If a device is not connected to the auxiliary jack, the mode does not switch to the AUX mode.*
- *Adjust the audio volume using the portable audio device, commander switch, or audio control switch.*
- *Audio adjustments can also be made using the portable audio device's volume setting.*
- *If the connection plug is pulled out from the auxiliary jack while in AUX mode, noise may occur.*

How to use USB mode

Type	Playable data
USB mode	MP3/WMA/AAC/OGG file

This unit does not support a USB 3.0 device. In addition, other devices may not be supported depending on the model or OS version.
USB devices formatted to FAT32 are supported (USB devices formatted to other formats such as NTFS are not supported).

▼Playback

1. Select the ♫ icon on the home screen to display the Entertainment screen.
2. Select USB 1 or USB 2 to switch the USB mode. The following icons are displayed in the lower part of the center display.

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
☰	Category list is displayed.
📁	Current track list is displayed. Select a desired track to play it.
🔁	Plays the current track repeatedly. Select it again to play the tracks in the current track list repeatedly. When selected again, the function is canceled.
🔀	Tracks in the current track list are played randomly. Select it again to cancel.
♪⊕	Starts playing a track similar to the current track using Gracenote's More Like This™. Select the desired song from the category list to cancel More Like This™.
⏮	If selected within a few seconds from the beginning of a song which has started to play, the previous song is selected. If more than a few seconds have elapsed, the song currently being played is replayed from the beginning. Long-press to fast reverse. It stops when you remove your hand from the icon or the commander knob.
⏯	Track is played. When selected again, playback is temporarily stopped.

Audio Set

Icon	Function
⏭	Advances to the beginning of the next song. Long-press to fast forward.
▦	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

NOTE

- *If a file name in the USB memory is too long, it could cause operation problems such as not being able to playback the song.*
  (Recommended: Within 80 characters)
- *To move to the desired location on the track, move the slider indicating the playback time.*
- *The appearance of the repeat and shuffle icons changes depending on the type of operation in which the function is used.*

Category list

Select the ☰ icon to display the following category list.
Select a desired category and item.

Category	Function
Playlist[*1]	Displays playlists on the device.
Artist	Displays the artist name list. All the tracks or tracks for each album of the selected artist can be played.
Album	Displays the album name list.
Song	All the tracks in the device are displayed.
Genre	Displays the genre list. All the tracks or tracks per album or artist in the selected genre can be played.
Audiobook[*2]	Displays the audiobook list. Chapters can be selected and played.
Podcast[*2]	Displays the podcast list. Episode can be selected and played.
Folder[*3]	Displays the folder/file list.

*1 Playlist folders of Apple devices are not supported.
*2 Apple device only
*3 USB-Sticks and USB-Android™ device only

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Example of use (to play all tracks in USB device)

(Method 1)

1. Select ☰ to display the category list.
2. Select Song.
   All the tracks in the USB device are displayed.
3. Select a desired track.
   The selected track is played. All the tracks in the USB device can be played by continuing playback.

NOTE

Only the tracks in the desired category selected in Step 2 are played.

(Method 2)[*1]

1. Select ☰ to display the category list.
2. Select Folder.
   All the folders in the USB device are displayed.
3. Select All Songs.
   All the tracks in the USB device are displayed.
4. Select a desired track.
   The selected track is played. All the tracks in the USB device can be played by continuing playback.

[*1] Can be operated using an Android™ device or USB flash memory.

NOTE

Only the tracks in the desired folder selected in Step 3 are played.

▼Gracenote Database

When a USB device is connected to this unit and the audio is played, the album name, artist name, genre and title information are automatically displayed if there is a match in the vehicle's database compilation to the music being played. The information stored in this device uses database information in the Gracenote music recognition service.

⚠ CAUTION

For information related to the most recent Gracenote database which can be used and how to install it, go to the Mazda Hands Free Website:
http://www.mazdahandsfree.com

Introduction

Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information visit www.gracenote.com.

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Updating the database

The Gracenote media database can be updated using USB device.

1. Connect a USB device containing the software for updating Gracenote.
2. Select the ⚙ icon on the home screen to display the Settings screen.
3. Select the System tab and select Music Database Update.
4. Select Search. The list of the update package stored in the USB device and the version are displayed.
5. Select the package to use the update.
6. Select Install.

NOTE

Gracenote can be downloaded from the Mazda Hands-free Website.

Bluetooth®

▼Introduction

Bluetooth® Hands-Free outline

When a Bluetooth® device (mobile phone) is connected to the vehicle's Bluetooth® unit via radio wave transmission, a call can be made or received by pressing the talk button, pick-up button, or hang-up button on the audio remote control switch, or by operating the center display. For example, even if a device (mobile phone) is in your coat pocket, a call can be made without taking the device (mobile phone) out and operating it directly.

Bluetooth® audio outline

When a portable audio unit equipped with the Bluetooth® communication function is paired to the vehicle, you can listen to music stored on the paired portable audio device from the vehicle's speakers. It is not necessary to connect the portable audio device to the vehicle's external input terminal. After programming, operate the vehicle audio control panel to play/stop the audio.

NOTE

- *For your safety, a device can be paired only when the vehicle is parked. If the vehicle starts to move, the pairing procedure will end. Park the vehicle in a safe place before pairing.*
- *The communication range of a Bluetooth® equipped device is about 10 meters (32 ft) or less.*
- *Basic audio operation is available using voice commands even if Bluetooth® is not connected.*
- *For safety reasons, operation of the center display is disabled while the vehicle is being driven. However, items not displayed in gray can be operated using the commander switch while the vehicle is being driven.*

CAUTION

Some Bluetooth® mobile devices are not compatible with the vehicle. Consult an Authorized Mazda Dealer, Mazda's call center or Web support center for information regarding Bluetooth® mobile device compatibility:

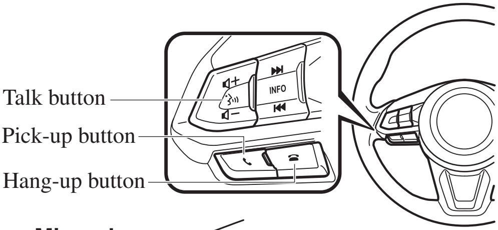
- *U.S.A.*
  Phone: 800-430-0153
  Web: www.mazdausa.com/mazdaconnect
- *Canada*
  Phone: 800-430-0153
  Web: www.mazdahandsfree.ca
- *Mexico*
  Center of Attention to Client (CAC)
  Phone: 01-800-01-MAZDA
  Web: www.mazdamexico.com.mx

Applicable Bluetooth® specification (Recommended)
Ver. 1.1/1.2/2.0 + EDR/2.1 + EDR/3.0 (conformity)

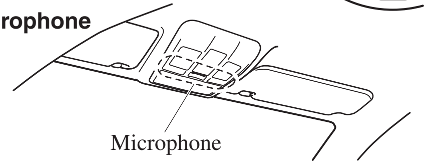
▼Component Parts

Audio unit

Talk button, Pick-up button and Hang-up button



Microphone



Microphone (hands-free)

The microphone is used for speaking voice commands or when making a Hands-free call.

Talk button, Pick-Up button and Hang-Up button (hands-free)

The basic functions of Bluetooth® Hands-Free can be used for such things as making calls or hanging up using the talk, pick-up and hang-up buttons on the steering wheel.

Commander switch

The commander switch is used for volume adjustment and display operation. Tilt or turn the commander knob to move the cursor. Press the commander knob to select the icon.

Volume adjustment

The volume dial of the commander switch is used to adjust the volume. Turn the dial to the right to increase volume, to the left to decrease it.
The volume can also be adjusted using the volume button on the steering wheel.

NOTE

If the volume is lower compared to other audio modes, increase the volume from the device side.

Conversation volume and the volume of the voice guidance and ringtone can each be set in advance.

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select **Settings**.
3. Adjust the **Phone Volume** and the **VR and Ringtone** using the slider.

Bluetooth® Preparation

▼Device pairing

To use Bluetooth® audio and Hands-Free, the device equipped with Bluetooth® has to be paired to the unit using the following procedure. A maximum of seven devices including Bluetooth® audio devices and hands-free mobile phones can be paired.

NOTE

- *The Bluetooth® system may not operate for 1 or 2 minutes after the ignition is switched to ACC or ON. However, this does not indicate a problem. If the Bluetooth® system does not connect automatically after 1 or 2 minutes have elapsed, make sure that the Bluetooth® setting on the device is normal and attempt to reconnect the Bluetooth® device from the vehicle side.*
- *If Bluetooth®-enabled devices are used in the following locations or conditions, connection via Bluetooth® may not be possible.*
    - *The device is in a location hidden from the center display such as behind or under a seat, or inside the glove compartment.*
    - *The device contacts or is covered by a metal object or body.*
    - *The device is set to power-saving mode.*

Pairing Procedure

1. Select the ⚙ icon on the home screen to display the Settings screen.
2. Select the Devices tab.
3. Select Bluetooth.
4. Turn the Bluetooth® setting on.
5. Select Add New Device to display the message and switch to the device operation.
6. Using your device, perform a search for the Bluetooth® device (Peripheral device).
7. Select “Mazda” from the device list searched by the device.
8. **(Device with Bluetooth® version 2.0)**
   Input the displayed 4-digit pairing code into the device.
   (Device with Bluetooth® version 2.1 or higher)
   Make sure the displayed 6-digit code on the audio is also displayed on the device, and touch the Yes.
   Connection permission and phonebook access permission for your mobile device may be required depending on the mobile device.
9. If pairing is successful, the functions of the device connected to Bluetooth® are displayed.
10. **(Devices compatible with Mazda E-mail / SMS function)**
    SMS (Short Message Service) messages, and E-mail for the device are downloaded automatically. A download permission operation for your device may be required depending on the device.

NOTE

When Call history and messages are downloaded automatically, each automatic download setting must be on.
Refer to Communication Settings on page 5-67.

After a device is registered, the system automatically identifies the device. By activating Bluetooth® Hands-Free again, or by activating Bluetooth® Hands-Free first after switching the ignition from OFF to ACC, the device connection condition is indicated in the center display.

IMPORTANT note about pairing and automatic reconnection:

- **If pairing is redone on the same mobile phone device, first clear “Mazda” displayed on the Bluetooth® setting screen of the mobile device.**
- When the OS of the device is updated, the pairing information may be deleted. If this happens, reprogram the pairing information to the Bluetooth® unit.
- Before you pair your device, make sure that Bluetooth® is “ON”, both on your phone and on the vehicle.

▼Device selection

If several devices have been paired, the Bluetooth® unit links the device last paired. If you would like to link a different paired device, it is necessary to change the link. The order of device priority after the link has been changed is maintained even when the ignition is switched off.

Connecting other devices

1. Select the ⚙ icon on the home screen to display the Settings screen.
2. Select the Devices tab.
3. Select Bluetooth.
4. Turn the Bluetooth® setting on.
5. Select the name of the device you would like to connect.
6. Phone and Audio **selection**
   Connects both devices as hands-free and Bluetooth® audio.
   Phone Only **selection**
   Connects as a hands-free device.
   Audio Only **selection**
   Connects as Bluetooth® audio.

NOTE

The following functions can be used for the Hands-free or audio.

- *Hands-free: Phone calls and E-mail/ SMS*
- *Audio: Bluetooth® audio, Pandora®, Aha™, Stitcher™ radio*

Disconnecting a device

1. Select the ⚙ icon on the home screen to display the Settings screen.
2. Select the Devices tab.
3. Select Bluetooth.
4. Turn the Bluetooth® setting on.
5. Select the device name which is currently connected.
6. Select Disconnect.

▼Deleting a device

Selecting and deleting devices

1. Select the ⚙ icon on the home screen to display the Settings screen.
2. Select the Devices tab.
3. Select Bluetooth.
4. Turn the Bluetooth® setting on.
5. Select the device name which you would like to delete.
6. Select Unpair This Device.
7. Select Yes.

Deleting all devices

1. Select the ⚙ icon on the home screen to display the Settings screen.
2. Select the Devices tab.
3. Select Bluetooth.
4. Select Custom Settings.
5. Select Unpair All Paired Devices.
6. Select Yes.

▼Changing PIN code

PIN code (4 digits) can be changed.

1. Select the ⚙ icon on the home screen to display the Settings screen.
2. Select the Devices tab.
3. Select Bluetooth.
4. Select Custom Settings.
5. Select Change Pairing Code.
6. Input the new PIN code to be set.
7. Select ✓.

Available Language

The Bluetooth® Hands-Free System applies to the following languages:

- English
- Spanish
- French

Refer to Settings on page 5-71.

Bluetooth® Audio

Applicable Bluetooth® specification (Recommended)
Ver. 1.1/1.2/2.0 + EDR/2.1 + EDR/3.0 (conformity)
Response profile

- A2DP (Advanced Audio Distribution Profile) Ver. 1.0/1.2
- AVRCP (Audio/Video Remote Control Profile) Ver. 1.0/1.3/1.4

A2DP is a profile which transmits only audio to the Bluetooth® unit. If your Bluetooth® audio device corresponds only to A2DP, but not AVRCP, you cannot operate it using the control panel of the vehicle's audio system. In this case, only the operations on the mobile device are available the same as when a portable audio device for a non-compliant Bluetooth® device is connected to the AUX terminal.

Function	A2DP	AVRCP		
		Ver. 1.0	Ver. 1.3	Ver. 1.4
Playback	X	X	X	X
Pause	X	X	X	X
File (Track) up/down	—	X	X	X
Reverse	—	—	X	X
Fast-forward	—	—	X	X
Text display	—	—	X	X
Repeat	—	—	Depends on device	Depends on device
Shuffle	—	—	Depends on device	Depends on device
Scan	—	—	Depends on device	Depends on device
Folder up/down	—	—	—	Depends on device

X: Available
—: Not available

NOTE

- *The battery consumption of Bluetooth® audio devices increases while Bluetooth® is connected.*
- *If a general mobile phone device is USB connected during music playback over the Bluetooth® connection, the Bluetooth® connection is disconnected. For this reason, you cannot have music playback over a Bluetooth® connection and music playback using a USB connection at the same time.*
- *The system may not operate normally depending on the Bluetooth® audio device.*

▼Switching to Bluetooth® audio mode

To listen to music or voice audio recorded to a Bluetooth® audio device, switch to the Bluetooth® audio mode to operate the audio device using the audio system control panel.
Any Bluetooth® audio device must be paired to the vehicle's Bluetooth® unit before it can be used.
Refer to Bluetooth® Preparation on page 5-44.

1. Turn on the Bluetooth® audio device's power.
2. Switch the ignition to ACC or ON.
3. Select the ♫ icon on the home screen to display the Entertainment screen.
4. When Bluetooth is selected, switches to the Bluetooth® audio mode to begin playback.

NOTE

- *If Bluetooth® audio is used after using Pandora®, Aha™ or Stitcher™ radio, the application on the mobile device has to be closed first.*
- *If the Bluetooth® audio device does not begin playback, select the ▶/Ⅱ icon.*
- *If the mode is switched from Bluetooth® audio mode to another mode (radio mode), audio playback from the Bluetooth® audio device stops.*

▼Playback

To listen to a Bluetooth® audio device over the vehicle's speaker system, switch the mode to Bluetooth® audio mode. (Refer to “Switching to Bluetooth® audio mode”)
After switching to the Bluetooth® audio mode, the following icons are displayed in the lower part of the display. Icons which can be used differ depending on the version of the Bluetooth® audio device which you are currently using.

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
☰	**(AVRCP Ver. 1.4 only)** Displays the top level folder/file list. Select the folder which you want to select. The files in the selected folder are displayed. Select the file you want to play.
🔁	**(AVRCP Ver. 1.3 or higher)** Replays the song currently being played repeatedly. When selected again, the songs in the folder are played repeatedly. Select it again to cancel. Icons change when the song is repeated or the folder is repeated.
🔀	**(AVRCP Ver. 1.3 or higher)** Plays songs in the folder in random order. When selected again, the songs on the device are played in random order. Select it again to cancel. Icons change during folder shuffle or device shuffle.

Icon	Function
▶ılıl	Scans the titles in a folder and plays the beginning of each song to aid in finding a desired song. When selected again, the beginning of each song on the device is played. When selected again, the operation is canceled and the song currently being played continues.
⏮	Returns to the beginning of the previous song. Long-press to fast reverse. It stops when you remove your hand from the icon or the commander knob.
⏯	Plays the Bluetooth® audio. When selected again, playback is temporarily stopped.
⏭	Advances to the beginning of the next song. Long-press to fast forward. It stops when you remove your hand from the icon or the commander knob.
▦	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

▼Bluetooth® Audio Device Information Display

If a Bluetooth® audio device is connected, the following information is displayed in the center display.

	AVRCP Ver. lower than 1.3	AVRCP Ver. 1.3	AVRCP Ver. 1.4 or higher
Device name	X	X	X
Remaining battery charge of device	X	X	X
Song name	—	X	X
Artist name	—	X	X
Album name	—	X	X
Playback time	—	X	X
Genre name	—	X	X
Album art image	—	—	—

X: Available
—: Not available

NOTE

Some information may not display depending on the device, and if the information cannot be displayed, "Unknown - - -" is indicated.

How to Use Pandora®

▼What is Pandora®?

Pandora®*1 is free personalized Internet radio. Simply enter a favorite artist, track, genre, and Pandora® will create a personalized station that plays their music and more like it. Rate songs by giving thumbs-up and thumbs-down feedback to further refine your station, discover new music and help Pandora® play only music you like.

*1 Pandora®, the Pandora® logo, and the Pandora® trade dress are trademarks or registered trademarks of Pandora Media, Inc., used with permission.

NOTE

To operate Pandora® from your Bluetooth® device, perform the following in advance:

- *Create Pandora® account on the Web.*
- *Create Pandora® station using Pandora® application.*
- *Install Pandora® application on your device.*

▼Playback

Select the ♫ icon on the home screen to display the Entertainment screen. When Pandora is selected, the following icons are indicated in the bottom part of the center display.

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
☰	Displays the station list. Use to switch to other stations.
👎	**Thumbs-Down** Press the 👎 icon to tell Pandora® not to play this track.
👍	**Thumbs-Up** Press the 👍 icon to tell Pandora® “you like this track” and it helps to bring in more tracks like it to your station.
🔖	**Bookmarking** Bookmarks the song or artist currently being played.
▶/❚❚	Plays the track. When selected again, playback is temporarily stopped.

Icon	Function
⏭	Goes to the next song.
▥	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

NOTE

- *The skip function may not be available depending on the device.*
- *The number of skips is limited by Pandora®.*
- *If the 👎 icon is selected when the skip song function is running, the next song is skipped.*

▼Selection from station list

Selection can be made from a programmed radio station list.

1. Select the ☰ icon.
2. Select the desired radio station.

NOTE

When Shuffle *is selected, songs randomly selected from the radio station list are played.*

Selecting the sort method

The displayed order of the station list can be changed.

1. Select the ☰ icon.
2. Select Sort By:.
3. Select Date to display in the order starting from the newly created station.
4. Select A-Z to display in alphabetical order.

NOTE

The displayed order of Shuffle *cannot be changed.*

▼Bookmarking

You can bookmark song or artist to check out later on the Web.

1. Select the 🔖 icon.
2. Select Bookmark Song to bookmark the song.
3. Select Bookmark Artist to bookmark the artist.

How to Use Aha™

▼What is Aha™?

Aha[*1] is an application which can be used to enjoy various Internet content such as Internet radio and podcasts.
Stay connected to your friends activities by getting updates from Facebook and Twitter.
Using the location-based service, nearby services and destinations can be searched or real-time local information can be obtained.
For details on Aha, refer to “http://www.aharadio.com/”.

*1 Aha, the Aha logo, and the Aha trade dress are trademarks or registered trademarks of Harman International Industries, Inc., used with permission.

NOTE

- *The service content provided by Aha varies depending on the country in which the user resides. In addition, the service is not available in some countries.*
- *To operate Aha from your Bluetooth® device, perform the following in advance:*
    - *Install the Aha application to your device.*
    - *Create an Aha account for your device.*
    - *Log onto Aha using your device.*
    - *Select the preset station on your device.*

▼Playback

Select the ♫ icon on the home screen to display the Entertainment screen. When aha is selected, the following icons are displayed at the bottom of the center display. The displayed icon differs depending on the selected station.
In addition, icons other than the following icons may be displayed.

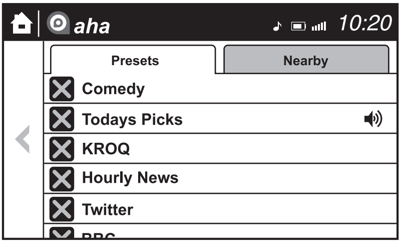
Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
☰	Displays the main menu. Use to switch to other stations.
📁	Displays the content list. Use to switch to other desired content on the station.
🎤	**Shout** Records voice. Records voice and posts it as playable audio to Facebook and other social stations.

Icon	Function
👍	**Like**[*1] Evaluates the current content as “Like”.
👎	**Dislike**[*1] Evaluates the current content as “Dislike”.
:15	Reverses for 15 seconds.
🗺	**Map (vehicles with navigation system)** Displays the destination searched by the location based services on the navigation system.
📞	**Call** A call can be made to the telephone number of a shop searched using the Location Based Services. Available when a device is connected as a Hands-Free.
⏮	Returns to the previous content.
▶/❚❚	Pauses playback of the content. When selected again, playback resumes.
⏭	Goes to the next content.
:30	Fast-forwards for 30 seconds.
▦	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

*1 Some stations may use alternate variations of Like and Dislike, based on station type or provider.

Main menu

Select the ☰ icon.


aha
10:20
Presets
Nearby
Comedy
Todays Picks
KROQ
Hourly News
Twitter
BBC

Switch the tab and select the station category.

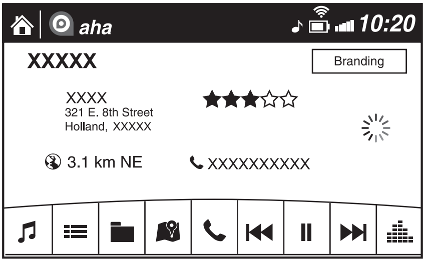
Tab	Function
Presets	Displays the preset station list set on the device. Select the preset station name to play the station content.
Nearby	Select the desired station. Guidance is provided to the searched destination near the vehicle's position. You can designate desired categories previously set using the filter setting on your device.

NOTE

The available Location Based Services may differ because the services depend on the content provided by Aha™.

Example of use (Location Based Services)

1. Select the desired station from the “Nearby” tab on the main menu.
   The destination name or address playback starts in the order of the destination name list.



aha 10:20

XXXXX

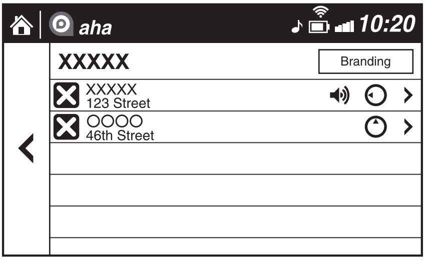
Branding

XXXX
321 E. 8th Street
Holland, XXXXX

3.1 km NE

XXXXXXXXXX

2. When the 🗺 icon is selected, the currently displayed destination is displayed on the navigation system (vehicles with navigation system).
3. When the ☎ icon is selected, a phone call is placed to the currently displayed destination.
4. Select the 📁 icon to display the content list.
   Selection of other destinations from the list can be made.



aha 10:20

XXXXX

Branding

XXXXX
123 Street

OOOO
46th Street

▼Shout

Some social stations, such as Facebook or Caraoke, support the ability to record and share voice messages using the “Shout” function.

1. Select the 🎤 icon and start the countdown (3, 2, 1, 0). Recording starts when the countdown reaches zero.
2. Records voice.
3. Select **Save** and store/post the recording.

NOTE

- *Recordable time varies depending on the station (Max. 30 seconds).*
- *Recording stops automatically when the recordable time has elapsed. You can then post or delete the recording.*

How to Use Stitcher™ Radio

▼What is Stitcher™ Radio?

Stitcher™[*1] radio is an application which can be used to listen to Internet radio or stream podcasts.
Recommended content is automatically selected by registering content which you put into your favorites, or by pressing the Like or Dislike button.
For details on Stitcher™ Radio, refer to “http://stitcher.com/”.

*1 Stitcher™, the Stitcher™ logo, and the Stitcher™ trade dress are trademarks or registered trademarks of Stitcher, Inc., used with permission.

NOTE

To operate Stitcher™ Radio from your Bluetooth® device, perform the following in advance:

- *Install the Stitcher™ Radio application to your device.*
- *Create a Stitcher™ Radio account for your device.*
- *Log onto Stitcher™ Radio using your device.*

▼Playback

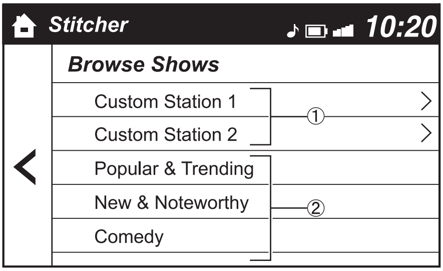
Select the ♫ icon on the home screen to display the Entertainment screen. When Stitcher is selected, the following icons are indicated in the bottom part of the center display.

Icon	Function
♫	Displays the Entertainment menu. Use to switch to a different audio source.
☰	Displays the station list. Use to switch to other stations.
👎	**Dislike** Evaluates the current program as “Dislike”.
👍	**Like** Evaluates the current program as “Like”.
★	Adds the current station to your favorites or deletes the current station from your favorites.
:30	Reverses for 30 seconds.

Icon	Function
▶/⏸	Plays the station. Select it again to pause playback.
⏭	Goes to the next station.
▦	Displays sound settings to adjust audio quality level. Refer to Volume/Display/Sound Controls on page 5-24.

Station list

1. Select the ☰ icon to display the station list.
   ① Favorites station name: Select to display the program registered to your favorites.
   ② Category name: A recommended category selected from your favorites by Stitcher™ is displayed.
   Select it to display the category program.


Stitcher
10:20
Browse Shows
Custom Station 1
Custom Station 2
Popular & Trending
New & Noteworthy
Comedy
①
②

2. Select the program name to play it.

Add to your favorites

If the current program has not been registered to your favorites, it can be registered to your favorites.

1. Select the ★ icon to display the favorites station which the registration can be added.
2. Select the station name which you want to register.
3. Select **OK** to add the program to the selected favorites station.

NOTE

- *Multiple favorites stations can be selected and registered.*
- *Favorites stations registered by oneself as well those set by default are displayed.*

Delete from your favorites

If the current program has already been registered to your favorites, the program can be deleted from your favorites.

1. Select the ★ icon.
2. The program is automatically deleted from the favorites station.

Bluetooth® Hands-Free

▼Making a Call

Phonebook Usage

Telephone calls can be made by saying the contact name in the downloaded phonebook or the name of a person whose phone number has been registered in the Bluetooth® Hands-Free. Refer to Import contact (Download Phonebook).

1. Press the talk button.
2. Wait for the beep sound.
3. **Say:** “Call XXXXX... (Ex. “John”) Mobile”.
4. Follow the voice guidance to place the call.

Screen operation

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select **Contacts** to display the contact list.
3. Select the contact you would like to call to display the details for the contact.
4. Select the desired phone number to make the call.

Import contact (Download Phonebook)

Phonebook data from your device (Mobile phone) can be sent and registered to your Bluetooth® Hands-Free phonebook using Bluetooth®.

(Automatic downloading)

The “Auto Download Contacts” setting must be on. When hands-free is connected to the device, the phonebook is downloaded automatically.
Refer to Communication Settings on page 5-67.

(Manually downloading)

If the “Auto Download Contacts” setting is off, download the phonebook using the following procedure.

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Contacts to display the contact list.
3. Select Edit Contacts.
4. Select Import All Contacts or Import Selected Contact to switch to the device operation.
5. If Import All Contacts is selected, select Download.
6. Download will be started from the mobile phone.

NOTE

- *If “Import All Contacts” is performed after saving the phonebook to the Bluetooth® unit, the phonebook will be overwritten.*
- *A maximum of 1,000 contacts can be registered to the phonebook.*
- *Phonebook, incoming/outgoing call record, and favorite memories are exclusive to each mobile phone to protect privacy.*

Favorites Contacts

A maximum of 50 contacts can be registered. It will take less time to make a call after registering the telephone number. In addition, you do not have to look for the person you want to call in the phonebook.

Registering your favorites

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Favorites to display the favorites list.
3. Select Add/Edit Communication Favorites.
4. Select Add New Contact or Add New Contact Details.
5. Select from the displayed list.

NOTE

When “Add New Contact” is selected, information such as the selected person’s name is also registered. In addition, when “Add New Contact Details” is selected, only the telephone number of the selected person is registered.

Calling a favorite

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Favorites to display the favorites list.
3. **(If only one phone number is registered to contact)**
   Select the contact information you would like to call. Go to Step 5.
   (If multiple phone numbers are registered to contact)
   Select the contact you would like to call to display the screen indicating the details for the contact. Go to Step 4.
4. Select the phone number you would like to call.
5. Select Yes.

Deleting a favorite

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Favorites to display the favorites list.
3. Select Add/Edit Communication Favorites.
4. Select Delete.
5. Select the contact information which you would like to delete.
6. Select Delete.

Changing the display order of your favorites list

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Favorites to display the favorites list.
3. Select Add/Edit Communication Favorites.
4. Select Move.
5. The contact can be moved after it is selected.
6. Slide the contact or move it using the commander switch, then select OK.

Changing contact name of your favorites

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Favorites to display the favorites list.
3. Select Add/Edit Communication Favorites.
4. Select Rename.
5. Select the contact to display the keyboard screen.
6. If a new name is input and OK is selected, the contact name is stored.

NOTE

If the contact is long-pressed when the favorites list is displayed, the contact information can be edited (deleted, moved).

Telephone Number Input

NOTE

Practice this while parked until you are confident you can do it while driving in a non-taxing road situation. If you are not completely comfortable, make all calls from a safe parking position, and only start driving when you can devote your full attention to driving.

1. Select the ☎ icon on the home screen to display the Communication screen.
2. When Dial Phone is pressed, the dial pad is displayed.
3. Input the telephone number using the dial pad.
4. Select 📞 to make the call.

Numeral or symbol entry

Use the dial pad.
Long-press the 0+ to input +.
Select ⌫ to delete the currently input value.
Long-press ⌫ to delete all input values.

Redial Function

Makes a call to the last person called (latest person on outgoing call record) from the mobile phone/vehicle.

1. Press the talk button.
2. Wait for the beep sound.
3. **Say:** “Redial”

Call back Function

Makes a call to the last person who called your (latest person on incoming call record) mobile phone/vehicle.

1. Press the talk button.
2. Wait for the beep sound.
3. **Say:** “Call back”

Mobile 911 (U.S.A./Canada only)

If the vehicle is involved in a moderate to severe collision, a call is made automatically to 911 from the connected device. The “Emergency Assistance Call” setting must be on.
Refer to Communication Settings on page 5-67.

CAUTION

Though the system can be set to not call 911, doing so will defeat the purpose of the system. Mazda recommends that the Mobile 911 system remain activated.

NOTE

- ***Mobile 911 is a secondary function of the audio entertainment system. Therefore, the mobile 911 function does not assure that the call is always made to 911 after an accident occurs.***
- *A Hands-free device must be paired and connected. The 911 operator can verify the vehicle's position information using the Hands-free device GPS if equipped.*

1. If the vehicle is involved in a moderate to severe collision, notification of the call to 911 is made via audio and screen display. To cancel the call, press Cancel Emergency Assistance Call or hang-up button within 10 seconds.
2. If Cancel Emergency Assistance Call or hang-up button is not pressed within 10 seconds, the call is made to 911 automatically.

▼Receiving an Incoming Call

When an incoming call is received, the incoming call notification screen is displayed. The "Incoming Call Notifications" setting must be on.
Refer to Communication Settings on page 5-67.
To accept the call, press the pick-up button on the audio control switch or select Answer on the screen.
To reject the call, press the hang-up button on the audio control switch or select Ignore on the screen.
The following icons are displayed on the screen during a call. Icons which can be used differ depending on use conditions.

Icon	Function
💬	Displays the Communication menu.
☎	Ends the call.
↩	**Transferring a call from hands-free to a mobile phone** Communication between the Bluetooth® unit and a device (mobile phone) is canceled, and an incoming call will be received by the device (mobile phone) like a standard call.
↪	**Transferring a call from a device (mobile phone) to hands-free** Communication between devices (mobile phone) can be switched to Bluetooth® Hands-Free.
🎙	**Mute** The microphone can be muted during a call. When selected again, the mute is canceled.
⊕	To make a 3-way call, select the contacts from the following: Call History: Call History is displayed. Contacts: The phonebook is displayed. Dial: The dial pad is displayed. Input the phone number. The device may be unusable depending on the contractual content.
«	The call on hold is made to make a 3-way call. The device may be unusable depending on the contractual content.
⇄	Switches the call on hold.
⌗	**DTMF (Dual Tone Multi-Frequency Signal) Transmission** This function is used when transmitting DTMF via the dial pad. The receiver of a DTMF transmission is generally a home telephone answering machine or a company's automated guidance call center. Input the number using a dial pad.

NOTE

- *If the ignition is switched off during a hands-free call, the line is transferred to the device (Mobile phone) automatically.*
- *If the DTMF code has two or more digits or symbols, each one must be transmitted individually.*

▼Call Interrupt

A call can be interrupted to receive an incoming call from a third party.
When Hold + Answer is selected or the pick-up button on the steering wheel is pressed, the current call is held and the system switches to the new incoming call.
When End + Answer is selected, the current call is ended and the system switches to the new incoming call (GSM network only).
When Ignore is selected or the hang-up button on the steering wheel is pressed, an incoming call is refused.

NOTE

- *The function may not be available depending on the contractual content of the mobile device.*
- *The function may not be operable depending on the type of the telephone network and the mobile device.*

▼Receiving and Replying to Messages (available only with E-mail/SMS compatible phones)

SMS (Short Message Service) messages, and E-mail received by connected devices can be downloaded, displayed, and played (read by the system).
Additionally, replies can also be made to calls and messages in the received messages.

Downloading messages

Up to 20 new messages can be downloaded and displayed from a connected device.

NOTE

For E-mail, 20 messages for each account can be downloaded.

(Automatic downloading)

The “Auto Download Email” (E-mail) or “Auto Download Text Message” (SMS) setting must be on. A message is downloaded automatically when the Bluetooth® unit is connected to the device.
Refer to Communication Settings on page 5-67.

(Manually downloading)

When the “Auto Download Email” (E-mail) or “Auto Download Text Message” (SMS) setting is off, the message is downloaded using the following procedure.

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Email or Text Messages to display the Inbox.
3. Select Update Inbox.
4. Download will be started from the mobile phone.

NOTE

- *Attached data is not downloaded.*
- *Messages up to 1 kilobyte (E-mail)/140-bytes (SMS) can be downloaded.*
- *A message list is created for each device.*
- *If the connected device does not correspond to MAP 1.0, the AT command is used to download. The downloaded message indicates that it is already read.*
- *Downloading using the AT command may not function depending on the connected device.*

Receiving messages

(Method 1)

When a device receives a message, a message received notification is displayed. The “Email Notifications” (E-mail) or “Text Notifications” (SMS) setting must be on.
Refer to Communication Settings on page 5-67.
Select Read and display the message.

(Method 2)

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Notifications and display the new message list for E-mail and SMS.
3. Select the message you would like to display.

The following icons are displayed in the lower part of the details on the message. Icons which can be used differ depending on use conditions.

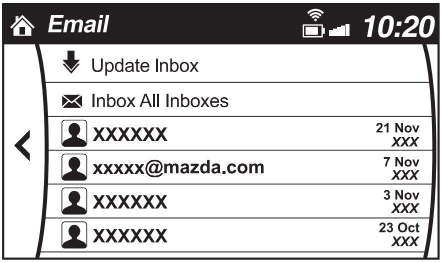
Icon	Function
☎	Displays the Communication menu.
☰	Displays the inbox.
▶/II	Plays back a message. When selected again, playback is temporarily stopped.
⏮	Displays the previous message.
⏭	Displays the next message.
↩	Only replies to the sender of the currently displayed message. Select the sentence on the displayed reply screen and select the sentence for sending from the preset message. Select Send.
↩↩	**(Only E-mail)** Replies to all members including CC. Select the sentence on the displayed reply screen and select the sentence for sending from the preset message. Select Send.
📞	Makes a call to a person who sent a message. For E-mail, this function may not work depending on the device.
🗑	Deletes a message. The messages stored in a device is also deleted.

NOTE

Up to three preset messages can be selected.

Example of use (verify unread E-mail)

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Email to display the inbox.



Email 10:20

Update Inbox

Inbox All Inboxes

XXXXXX	21 Nov XXX
xxxxx@mazda.com	7 Nov XXX
XXXXXX	3 Nov XXX
XXXXXX	23 Oct XXX

3. Select the unread message displayed in bold.
4. The details of the message are displayed and replying to the message, making a call, or playback can be performed.

Changing account for displaying (E-mail only)

1. Select ✉ Inbox.
2. Select the account which you would like to display. Only the messages for the selected account are displayed in the inbox.

Editing preset messages

1. Select the ☎ icon on the home screen to display the Communication screen.
2. Select Settings.
3. Select Edit Preset Messages.
4. Select the preset message which you would like to edit. The keyboard screen is displayed.
5. When the message is input and ✓ is selected, the message is stored as a preset message.

NOTE

- *Select the 🌐 icon to change the language.*
- *Select the ⬆ icon to switch between capitalized and lower-case characters.*
- *Select the ⊗ icon to return to the previous screen without storing the edit.*

▼Communication Settings

Select the ☎ icon on the home screen to display the Communication screen.
Select Settings to change the setting.

Item	Setting	Function
Bluetooth®	—	Go to Bluetooth® setting menu. Refer to Bluetooth® Preparation on page 5-44.
Incoming Call Notifications	On/Off	Notifies when an incoming call is received.
Auto Download Text Message	On/Off	Downloads SMS automatically when the Bluetooth® unit is connected to the device.
Text Notifications	On/Off	Notifies when a new SMS is received.
Auto Download Email[*1]	On/Off	Downloads E-mail automatically when the Bluetooth® unit is connected to the device.
Email Notifications	On/Off	Notifies when a new Email is received.
Auto Download Call History	On/Off	Downloads Call History automatically when the Bluetooth® unit is connected to the device.
Auto Download Contacts[*1]	On/Off	Downloads the phonebook automatically when the Bluetooth® unit is connected to the device.
Ringtone	Car/Phone/Off	Changes the ringtone setting.
Phone Volume	Adjusts using the slider.	Adjusts the conversation volume.
VR and Ringtone	Adjusts using the slider.	Adjusts the voice guidance and ringtone volume.
Contacts Display Order	First Name, Last Name	Displays the contact information in alphabetical order of the first name.
	Last Name, First Name	Displays the contact information in alphabetical order of the last name.
Edit Preset Messages	—	Edits the preset message. Refer to Receiving and Replying to Messages (available only with E-mail/SMS compatible phones) on page 5-63.
Emergency Assistance Call	On/Off	Mobile Utilizes the Mobile 911 function.
Restore Factory settings	—	Initializes all Communication Settings.

*1 Depending on the device, it may be necessary to acquire download permission on the device side.

Voice Recognition

▼Basic Operation Method

Activating Voice Recognition

Press the talk button.

Ending Voice Recognition

Use one of the following methods:

- Press the hang-up button.
- Say, “Cancel”.
- Operate the commander switch or the center display (only when vehicle is stopped).

Skipping Voice Guidance (for faster operation)

Press and release the talk button.

Troubleshooting for Voice Recognition

If you do not understand an operation method while in the voice recognition mode, say “Tutorial” or “Help”.

Commands useable anytime during voice recognition

“Go Back” and “Cancel” are commands which can be used at anytime during voice recognition.

Returning to previous operation

To return to the previous operation, say, “Go Back” while in voice recognition mode.

Cancel

To put the Bluetooth® Hands-Free system in standby mode, say, “Cancel” while in voice recognition mode.

To prevent a deterioration in the voice recognition rate and voice quality, the following points should be observed:

- **The voice recognition cannot be performed while voice guidance or the beep sound is operating. Wait until the voice guidance or the beep sound is finished before saying your commands.**
- Phone related commands are available only when your phone is connected via Bluetooth®. Make sure your phone is connected via Bluetooth® before you operate phone related voice commands.
- Music play commands, such as Play Artist and Play Album can be used only in USB audio mode.
- Do not speak too slowly or loudly (no loud voice).
- Speak clearly, without pausing between words or numbers.
- Dialects or different wording other than hands-free prompts cannot be recognized by voice recognition. Speak in the wording specified by the voice commands.
- It is not necessary to face the microphone or approach it. Speak the voice commands while maintaining a safe driving position.
- Close the windows and/or the moonroof to reduce loud noises from outside the vehicle, or turn down the airflow of the climate control system while Bluetooth® Hands-Free is being used.
- Make sure the vents are not directing air up towards the microphone.

NOTE

If the voice recognition performance is not satisfactory.
Refer to Troubleshooting on page 5-74.

▼Voice Command List

Voice command

When the talk button is pressed and the following command is spoken, the audio or navigation can be operated. The commands in the () can be omitted. The specified name and number are put into the {}.

Standard command

Voice command	Function
cancel	Ends the voice recognition mode.
(go) back	Returns to the previous operation.
help	Usable commands can be verified.
tutorial	Basic voice commands and methods of use can be verified.
(go to) home (screen)/main menu	Moves to the home screen.
(go to) communication	Moves to the communication screen.
(go to) navigation	Moves to the navigation screen.
(go to) entertainment (menu)	Moves to the entertainment screen.
(go to) settings	Moves to the setting screen.
(go to) favorites	Moves to the favorites screen.

Communication (phone) related command

Voice command	Function
Call {name in phonebook} (mobile/home/work/other) Example: “Call John Mobile”	Call to the contact in the downloaded phonebook. Refer to Making a Call on page 5-58.
Redial	Call to the last contact you called. Refer to Making a Call on page 5-58.
Callback	Call to the last contact who called you. Refer to Making a Call on page 5-58.

Entertainment (audio) related command

Voice command	Function	Corresponding audio source
(Go to/Play) AM (Radio)	Switches the audio source to AM radio.	All
(Go to/Play) FM (Radio)	Switches the audio source to FM radio.	All
(Go to/Play) Bluetooth (Audio)	Switches the audio source to BT audio.	All
(Go to/Play) Pandora	Switches the audio source to Pandora®	All
(Go to/Play) Aha (Radio)	Switches the audio source to Aha™ Radio.	All
(Go to/Play) Stitcher	Switches the audio source to Stitcher™ Radio.	All
(Go to/Play) USB 1	Switches the audio source to USB 1.	All
(Go to/Play) USB 2	Switches the audio source to USB 2.	All
Play Playlist {Playlist name}	Plays the selected playlist.	USB
Play Artist {Artist name}	Plays the selected artist.	USB
Play Album {Album name}	Plays the selected album.	USB
Play Genre {Genre name}	Plays the selected genre.	USB
Play Folder {Folder name}	Plays the selected folder.	USB

Navigation related command

For the navigation screen voice commands, refer to the separate navigation system manual.

NOTE

- *Some commands cannot be used depending on the grade and specification.*
- *Some commands cannot be used depending on the device connection conditions and the use conditions.*
- *The commands are examples of the available commands.*

Settings

NOTE

Depending on the grade and specification, the screen display may differ.

Select the ⚙ icon on the home screen and display the Settings screen.
Switch the tab and select the setting item you want to change.
You can customize settings in the setup display as follows:

Tab	Item	Function
AD-Disp	Height Brightness Control Other	Refer to Active Driving Display on page 4-29.
Display	Refer to Volume/Display/Sound Controls on page 5-24.	
Safety	Smart City Brake Support Blind Spot Monitoring Volume Other	Refer to Personalization Features on page 9-11.
Sound	Refer to Volume/Display/Sound Controls on page 5-24.	
Clock	Adjust Time	Displays the currently set time is displayed. Press + to advance the hour/minute, and select − to move the hour/minute back. AM/PM can only be selected with the 12-hour clock display.
	GPS Sync	Synchronizes with GPS when turned on. When turned off, the time can be changed from “Adjust Time”.
	Time Format	Changes the display between 12 and 24-hour clock time.
	Time Zone Select	When it's not synchronized with GPS, select the region you want to specify.
	Daylight Savings Time	Turns the daylight saving time setting on/off. When ON, the time advances 1 hour. When OFF, it returns to normal time.
Vehicle	Rain Sensing Wiper Door Locks Other	Refer to Personalization Features on page 9-11.
Devices	Bluetooth	Refer to Bluetooth® Preparation on page 5-44.

Audio Set

Tab	Item		Function
System	Tool Tips		Turns button explanations ON/OFF.
	Language		Changes the language.
	Temperature		Changes the setting between Fahrenheit and Celsius.
	Distance		Changes the setting between miles and kilometers.
	Music Database Update		Used to update Gracenote®. Gracenote is used with USB Audio, and provides: 1.Supplemental music information (Such as song name, artist name) 2.Voice recognition assistance for Play Artist and Play Album Gracenote can be downloaded from the Mazda Handsfree Website. Refer to Gracenote Database on page 5-38.
	Restore All Factory Settings		Memory and settings are initialized to the factory settings. The initialization launches by selecting the Yes button.
	About	Agreements and Disclaimers	Verify the disclaimer and agree.
		Version Information	Can verify the current audio unit OS version and Gracenote Database version.

Applications

NOTE

Depending on the grade and specification, the screen display may differ.

Select the A icon on the home screen to display the Applications screen. The following information can be verified.

Top screen		Item	Function
HD Radio™ Traffic Map		—	—
Fuel Economy Monitor		Fuel Consumption Display	Refer to Fuel Economy Monitor on page 4-77.
Vehicle Status Monitor	Maintenance	Scheduled Maintenance Tire Rotation Oil Change	Refer to Maintenance Monitor on page 6-19.
	Warning Guidance	Warnings currently active can be verified.	Refer to If a Warning Light Turns On or Flashes on page 7-30.

Troubleshooting

Mazda Bluetooth® Hands-Free Customer Service

If you have any problems with Bluetooth®, contact our toll-free customer service center.

- **U.S.A.**
  Phone: 800-430-0153 (Toll-free)
  Web: www.mazdausa.com/mazdaconnect
- **Canada**
  Phone: 800-430-0153 (Toll-free)
  Web: www.mazdahandsfree.ca
- **Mexico**
  Center of Attention to Client (CAC)
  Phone: 01-800-01-MAZDA (Toll-free)
  Web: www.mazdamexico.com.mx

Bluetooth® Device pairing, connection problems

Symptom	Cause	Solution method
Unable to perform pairing	—	First make sure the device is compatible with the Bluetooth® unit, and then check whether the Bluetooth® function and the Find Mode/Visible setting[*1] on the device are turned on. If pairing is still not possible after this, contact an Authorized Mazda Dealer or Mazda Bluetooth® Hands-Free Customer Service.
Pairing cannot be performed again	The pairing information paired to the Bluetooth® unit or device is not recognized correctly.	Perform pairing using the following procedure. •Clear "Mazda" stored in the device. •Perform pairing again.
Unable to perform pairing	The Bluetooth® function and the Find Mode/Visible setting[*1] on the device may turn off automatically after a period of time has elapsed depending on the device.	Check whether the Bluetooth® function and the Find Mode/Visible setting[*1] on the device are turned on and pairing or reconnect.
Does not connect automatically when starting the engine		
Automatically connects, but then disconnects suddenly		
Disconnects intermittently	The device is in a location in which radio wave interference can occur easily, such as inside a bag in a rear seat, in a rear pocket of a pair of pants.	Move the device to a location in which radio wave interference is less likely to occur.
Does not connect automatically when starting the engine	The pairing information is updated when the device OS is updated.	Perform pairing again.

[*1] Setting which detects the existence of a device external to the Bluetooth® unit

NOTE

- *When the OS of the device is updated, the pairing information may be deleted. If this happens, reprogram the pairing information to the Bluetooth® unit.*
- *If you pair your phone which has already been paired to your vehicle more than once in the past, you need to delete "Mazda" on your mobile device. Then, execute the Bluetooth® search on your mobile device once again, and pair to a newly detected "Mazda".*
- *Before you pair your device, make sure that Bluetooth® is "ON", both on your phone and on the vehicle.*
- *If Bluetooth®-enabled devices are used in the following locations or conditions, connection via Bluetooth® may not be possible.*
    - *The device is in a location hidden from the center display such as behind or under a seat, or inside the glove compartment.*
    - *The device contacts or is covered by a metal object or body.*
    - *The device is set to power-saving mode.*
- *Different Bluetooth®-enabled devices can be used for Bluetooth® Hands-Free and Bluetooth® audio. For example, device A can be connected as a Bluetooth® Hands-Free device and device B can be connected as a Bluetooth® audio device. However, the following may occur when they are used at the same time.*
    - *The Bluetooth® connection of the device is disconnected.*
    - *Noise occurs in the Hands-Free audio.*
    - *Hands-Free operates slowly.*

Voice recognition related problems

Symptom	Cause	Solution method
Poor voice recognition	•Excessive, slow speech. •Excessive, forceful speech (shouting). •Speaking before the beep sound has ended. •Loud noise (speaking or noise from outside/inside vehicle). •Airflow from A/C is blowing against the microphone. •Speaking in off-standard expressions (dialect).	Regarding the causes indicated on the left, be careful with how you speak. In addition, when numbers are spoken in a sequence, recognition ability will improve if no stop is placed between the numbers.
False recognition of numbers		
Poor voice recognition	There is a malfunction in the microphone.	A poor connection or malfunction with the microphone may have occurred. Consult an Authorized Mazda Dealer.
Phone-related voice recognition is disabled	There is a problem with the connection between the Bluetooth® unit and the device.	If there is any malfunction after checking the pairing situation, check for device pairing or connection problems.

Symptom	Cause	Solution method
Names in the phonebook are not easily recognized	The Bluetooth® system is under a condition in which recognition is difficult.	By carrying out the following measures, the rate of recognition will improve. •Clear memory from the phonebook which is not used very often. •Avoid shortened names, use full names. (Recognition improves the longer the name is. By not using names such as “Mom”, “Dad”, recognition will improve.)
When operating the audio, a song name is not recognized	Song names cannot be recognized by voice.	—
You want to skip guidance	—	Guidance can be skipped by quickly pressing and releasing the talk button.

Regarding problems with calls

Symptom	Cause	Solution method
When starting a call, vehicle noise from the other party can be heard	For about three seconds after starting a call, the Bluetooth® unit's Noise Suppression function requires time to adapt to the call environment.	This does not indicate a problem with the device.
The other party cannot be heard or the speaker's voice is quiet	The volume is set at zero or low.	Increase the volume.

Other problems

Symptom	Cause	Solution method
The indication for the remaining battery is different between the vehicle and the device	The indication method is different between the vehicle and the device.	—
When a call is made from the vehicle, the telephone number is updated in the incoming/outgoing call record but the name does not appear	The number has not been registered into the phonebook.	If the number has been registered into the phonebook, the incoming/outgoing call record is updated by the name in the phonebook when the engine is restarted.
The cell phone does not synchronize with the vehicle regarding the incoming/outgoing call record	Some types of cell phones do not synchronize automatically.	Operate the cell phone for synchronization.
It takes a long time to complete the function for changing the language	A maximum of 60 seconds is required.	—

Things You Need to Know

WARNING

Always adjust the audio while the vehicle is stopped:

Do not adjust the audio control switches while driving the vehicle. Adjusting the audio while driving the vehicle is dangerous as it could distract your attention from the vehicle operation which could lead to a serious accident.

Even if the audio control switches are equipped on the steering wheel, learn to use the switches without looking down at them so that you can keep your maximum attention on the road while driving the vehicle.

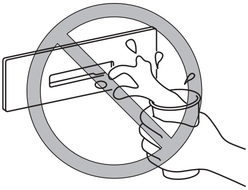
CAUTION

For the purposes of safe driving, adjust the audio volume to a level that allows you to hear sounds outside of the vehicle including car horns and particularly emergency vehicle sirens.

NOTE

- *To prevent the battery from being discharged, do not leave the audio system on for a long period of time when the engine is not running.*
- *If a cellular phone or CB radio is used in or near the vehicle, it could cause noise to occur from the audio system, however, this does not indicate that the system has been damaged.*

Do not spill any liquid on the audio system.



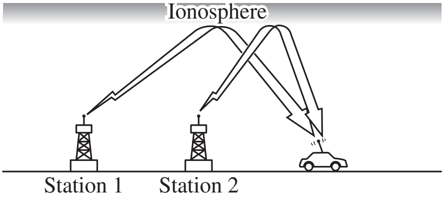
▼Radio Reception

AM characteristics

AM signals bend around such things as buildings or mountains and bounce off the ionosphere.

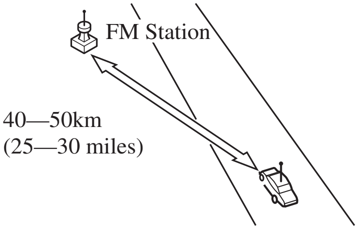
Therefore, they can reach longer distances than FM signals.

Because of this, two stations may sometimes be picked up on the same frequency at the same time.

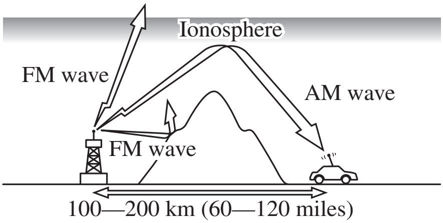


FM characteristics

An FM broadcast range is usually about 40—50 km (25—30 miles) from the source. Because of extra coding needed to break the sound into two channels, stereo FM has even less range than monaural (non-stereo) FM.



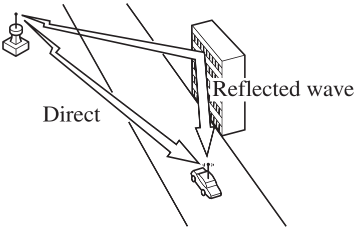
Signals from an FM transmitter are similar to beams of light because they do not bend around corners, but they do reflect. Unlike AM signals, FM signals cannot travel beyond the horizon. Therefore, FM stations cannot be received at the great distances possible with AM reception.



Atmospheric conditions can also affect FM reception. High humidity will cause poor reception. However, cloudy days may provide better reception than clear days.

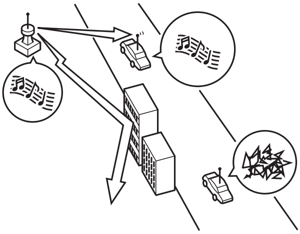
Multipath noise

Since FM signals can be reflected by obstructions, it is possible to receive both the direct signal and the reflected signal at the same time. This causes a slight delay in reception and may be heard as a broken sound or a distortion. This problem may also be encountered when in close proximity to the transmitter.



Flutter/Skip noise

Signals from an FM transmitter move in straight lines and become weak in valleys between tall buildings, mountains, and other obstacles. When a vehicle passes through such an area, the reception conditions may change suddenly, resulting in annoying noise.



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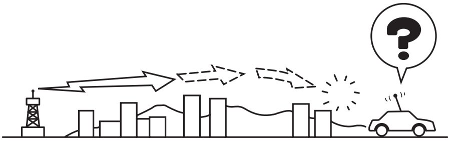
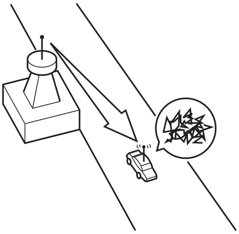
Weak signal noise

In suburban areas, broadcast signals become weak because of distance from the transmitter. Reception in such fringe areas is characterized by sound breakup.



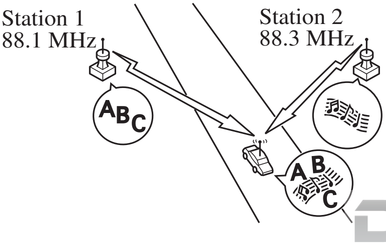
Strong signal noise

This occurs very close to a transmitter tower. The broadcast signals are extremely strong, so the result is noise and sound breakup at the radio receiver.



Station drift noise

When a vehicle reaches the area of two strong stations broadcasting at similar frequencies, the original station may be temporarily lost and the second station picked up. At this time there will be some noise from this disturbance.



▼Operating Tips for MP3

MP3 stands for MPEG Audio Layer 3, which is standardized voice compression established by the ISO[*1] working group (MPEG).
Use of MP3 allows for audio data to be compressed to approximately a tenth of the source data size.
This unit plays files with the extension (.mp3) as MP3 files.

[*1] International Organization for Standardization

⚠CAUTION

Do not use an audio file extension on files other than audio files. In addition, do not change the audio file extension. Otherwise, the unit will not recognize the file correctly resulting in noise or a malfunction.

NOTE

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via the Internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com.

- When naming an MP3 file, be sure to add an MP3 file extension (.mp3) after the file name.
- The number of characters which can be displayed is restricted.

▼Operating Tips for WMA

WMA is short for Windows Media[*1] Audio and is the audio compression format used by Microsoft[*1].
Audio data can be created and stored at a higher compression ratio than MP3.
This unit plays files with the extension (.wma) as WMA files.

*1 Windows Media and Microsoft are registered trademarks of Microsoft Corporation U.S. in the United States and other countries.

⚠ CAUTION

Do not use an audio file extension on files other than audio files. In addition, do not change the audio file extension. Otherwise, the unit will not recognize the file correctly resulting in noise or a malfunction.

- WMA files written under specifications other than the indicated specification may not play normally or files or folder names may not display correctly.
- The file extension may not be provided depending on the computer operating system, version, software, or settings. In this case, add the file extension ".wma" to the end of the file name, and then write it to the memory.

▼Operating Tips for AAC

AAC stands for Advanced Audio Coding, which is standardized voice compression established by the ISO[*1] working group (MPEG). Audio data can be created and stored at a higher compression ratio than MP3.
This unit plays files with the extensions (.aac/.m4a/.wav) as the AAC files.

⚠ CAUTION

Do not use an audio file extension on files other than audio files. In addition, do not change the audio file extension. Otherwise, the unit will not recognize the file correctly resulting in noise or a malfunction.

- AAC files written under specifications other than the indicated specification may not play normally or files or folder names may not display correctly.
- The file extension may not be provided depending on the computer operating system, version, software, or settings. In this case, add the file extension ".aac", ".m4a", or ".wav" to the end of the file name, and then write it to the memory.

  *1 International Organization for Standardization

▼Operating Tips for OGG

OGG is the audio compression format for Xiph. Org Foundation.
Audio data can be created and stored at a higher compression ratio than MP3.
This unit plays files with the extension (.ogg) as OGG files.

⚠ CAUTION

Do not use an audio file extension on files other than audio files. In addition, do not change the audio file extension. Otherwise, the unit will not recognize the file correctly resulting in noise or a malfunction.

- OGG files written under specifications other than the indicated specification may not play normally or files or folder names may not display correctly.
- The file extension may not be provided depending on the computer operating system, version, software, or settings. In this case, add the file extension ".ogg" to the end of the file name, and then write it to the memory.

▼Operating Tips for USB device

This unit plays audio files as follows:

Extension	Playback with this unit
.mp3	MP3
.wma	WMA
.aac	AAC
.m4a	
.wav	WAV
.ogg	OGG

⚠ CAUTION

Do not use an audio file extension on files other than audio files. In addition, do not change the audio file extension. Otherwise, the unit will not recognize the file correctly resulting in noise or a malfunction.

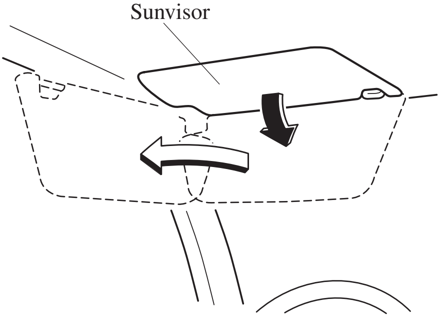
NOTE

- *Playback may not be possible depending on the type and condition of the USB flash memory even if the audio file complies with the standard.*
- *A copyright protected WMA/AAC file cannot be played in this unit.*
- *If a file name in the USB memory is too long, it could cause operation problems such as not being able to playback the song.*
  (Recommended: Within 80 characters)
- *The order of the music data stored in the device may differ from the playback order.*
- *To prevent loss or damage of stored data, we recommend that you always back up your data.*
- *If a device exceeds the maximum electric current value of 1,000 mA, it may not operate or recharge when connected.*
- *Do not pull out the USB device while in the USB mode (only pull it out while in FM/AM radio mode).*
- *The device will not operate if the data is password protected.*

MP3/WMA/AAC/OGG files written under specifications other than the indicated specification may not play normally or files/folder names may not display correctly.

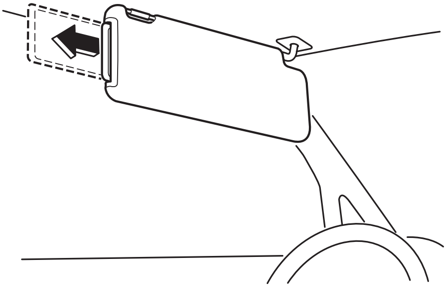
Sunvisors

When you need a sunvisor, lower it for use in front or swing it to the side.



▼Side Extension Sunvisors*

The visor extender extends the sunvisor's range of sun shading.
To use, pull it out.

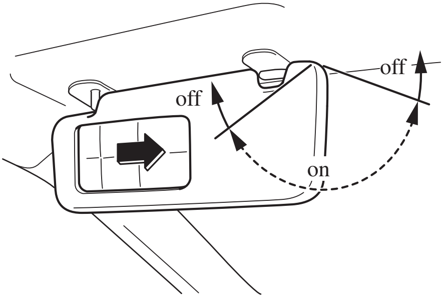


⚠ CAUTION

When moving the sunvisor, retract the visor extender to its original position. Otherwise, the visor extender could hit the rearview mirror.

▼Vanity Mirrors

To use the vanity mirror, lower the sunvisor.
If your vehicle is equipped with a vanity mirror light, it will illuminate when you open the cover.
To prevent the battery from being discharged, the vanity mirror will only illuminate in the tilt range shown in the figure.



*Some models.

Interior Lights

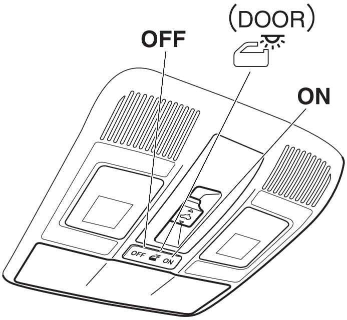
NOTE

Do not leave the lights on for long periods while the engine is turned off. Otherwise the battery power could be depleted.

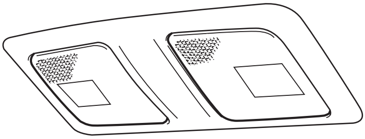
Overhead Lights

Switch Position	Overhead Lights
OFF	Light off
DOOR	•Light is on when any door is open •Light is on or off when the illuminated entry system is on
ON	Light on

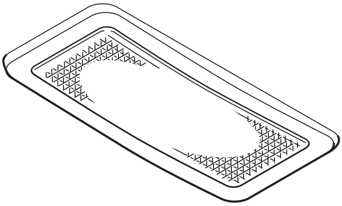
Front



Center



Rear



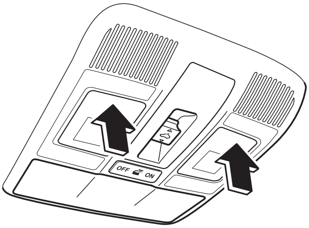
NOTE

The rear overhead light and the center map lights also turn on and off when the front overhead light switch is operated.

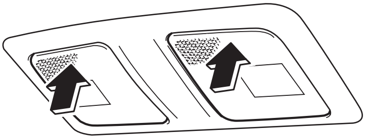
Map Lights

When the overhead light switch is in the door or off position, press the lens to illuminate the map lights, and then press the lens again to turn them off.

Front



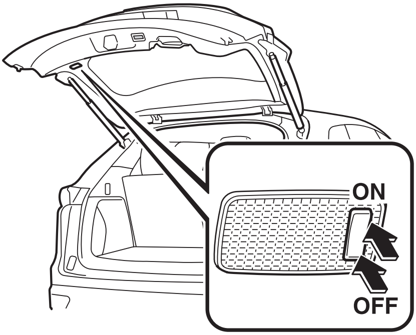
Center



NOTE

- *Once the center map lights have been turned off, they will turn on and off depending on the position to which the overhead light is switched.*
- *The map lights will not turn off even if the lens is pressed in the following cases:*
    - *The overhead light switch is in the ON position.*
    - *The overhead light switch is in the door position with the door open.*
    - *The illuminated entry system is on.*

Luggage Compartment Lights



Switch Position	Luggage Compartment Light
OFF	Light off
ON	Light on when the liftgate is open

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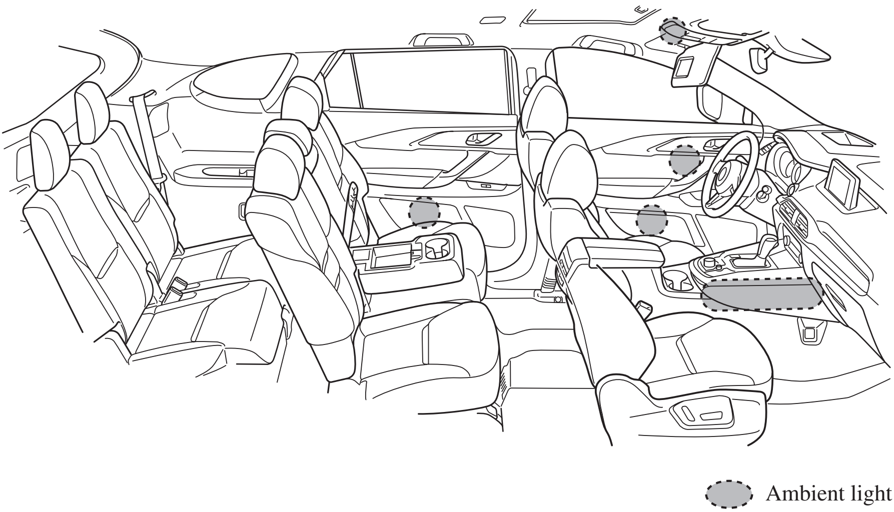
Ambient Light*

The ambient lights continuously turn on when the ignition is switched ON.
The ambient lights dim when the parking lights or headlights are turned on.



NOTE

- *The ambient lights turn on or off in conjunction with the illuminated entry system when the ignition is switched OFF.*
- *The ambient light illumination level can be changed while the parking lights or headlights are turned on.*
  Refer to Personalization Features on page 9-11.

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▼Illuminated Entry System

When the illuminated entry system operates, the overhead lights and the ambient lights turn on in the following conditions:

- The driver's door is unlocked after the ignition is switched OFF.
- The ignition is switched OFF with all doors closed.

NOTE

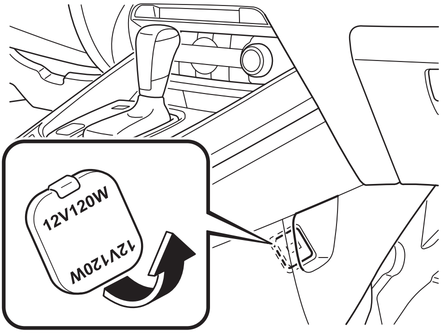
- ***(Overhead lights)***
  The illuminated entry system operates when the overhead light switch is in the DOOR position.
- *The illumination time differs depending on the operation.*
- ***Battery saver***
  If an interior light is left on with the ignition switched OFF, the light is turned off automatically after about 30 minutes to prevent battery depletion.
- *The operation of the illuminated entry system can be changed.*
  Refer to Personalization Features on page 9-11.

Accessory Sockets

Only use genuine Mazda accessories or the equivalent requiring no greater than 120 W (DC 12 V, 10 A).

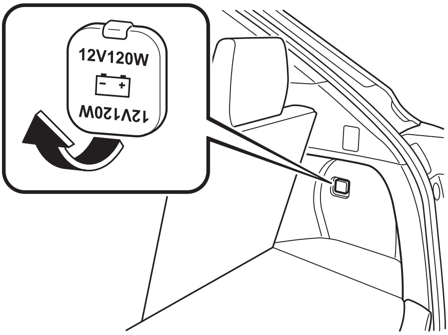
Front

The ignition must be switched to ACC or ON.



Rear

The accessory sockets can be used regardless of whether the ignition is on or off.



CAUTION

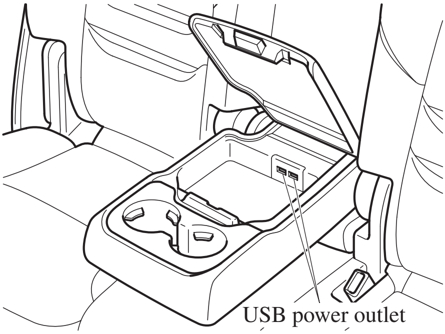
- *To prevent accessory socket damage or electrical failure, pay attention to the following:*
  - *Do not use accessories that require more than 120 W (DC 12 V, 10 A).*
  - *Do not use accessories that are not genuine Mazda accessories or the equivalent.*
  - *Close the cover when the accessory socket is not in use to prevent foreign objects and liquids from getting into the accessory socket.*
  - *Correctly insert the plug into the accessory socket.*
  - *Do not insert the cigarette lighter into the accessory socket.*
- *Noise may occur on the audio playback depending on the device connected to the accessory socket.*
- *Depending on the device connected to the accessory socket, the vehicle's electrical system may be affected, which could cause the warning light to illuminate. Disconnect the connected device and make sure that the problem is resolved. If the problem is resolved, disconnect the device from the socket and switch the ignition off. If the problem is not resolved, consult an Authorized Mazda Dealer.*

NOTE

To prevent discharging of the battery, do not use the socket for long periods with the engine off or idling.

USB Power Outlet*

The USB power outlets can be used regardless of whether the ignition is on or off.
Only use USB devices that have a maximum power consumption of 10.5W (DC5V, 2.1A) or below.



CAUTION

To prevent USB power outlets damage or electrical failure, pay attention to the following:

- *Do not use USB devices that require more than 10.5 W (DC 5 V, 2.1 A).*
- *Close the lid when the USB power outlets are not in use to prevent foreign objects and liquids from getting into the USB power outlets.*
- *Correctly connect the USB connector into the USB power outlets.*

NOTE

- *The USB power outlets are designed only for charging and they cannot be used for connecting to the vehicle's audio system.*
- *To prevent discharging of the battery, do not use the USB power outlets for long periods with the engine off or idling.*

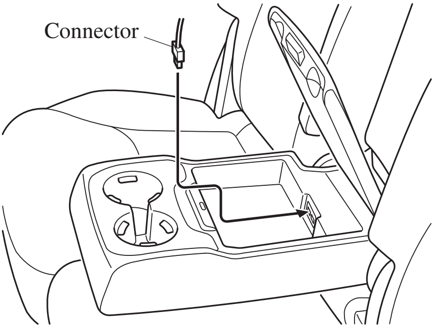
*Some models.

Interior Equipment

How to connect

The groove in the armrest box can be used to pass the cord of the device into the box to connect it to the USB power outlets.

1. Open the lid.
2. Route the cord through the groove in the armrest box and insert the USB connector into the USB power outlets.



Cup Holder

WARNING

Never use a cup holder to hold hot liquids while the vehicle is moving:

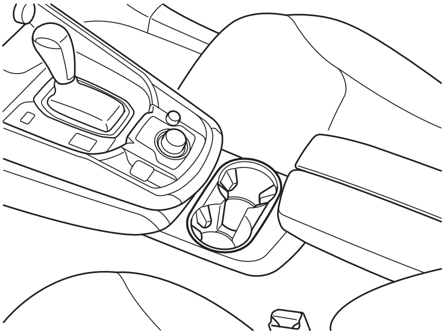
Using a cup holder to hold hot liquids while the vehicle is moving is dangerous. If the contents spill, you could be scalded.

Do not put anything other than cups or drink cans in cup holders:

Putting objects other than cups or drink cans in a cup holder is dangerous.

During sudden braking or maneuvering, occupants could be hit and injured, or objects could be thrown around the vehicle, causing interference with the driver and the possibility of an accident. Only use a cup holder for cups or drink cans.

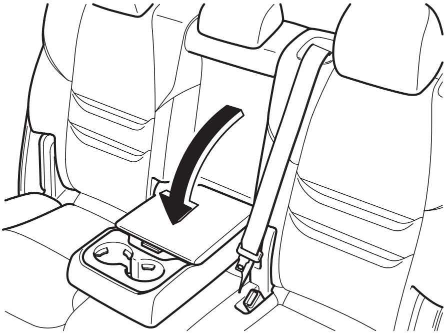
▼Front



▼Rear

Second-row seat

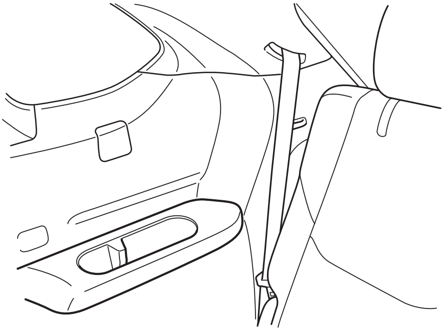
Cup holders are located in the armrest.



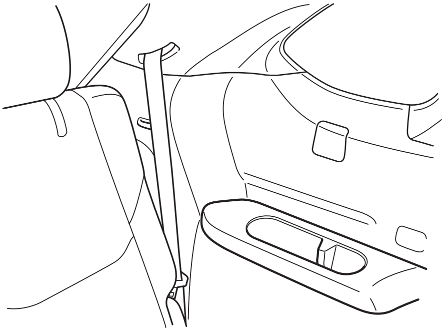
Third-row seat

Cup holders are located in the third-row seat side trims.

Right-side



Left-side



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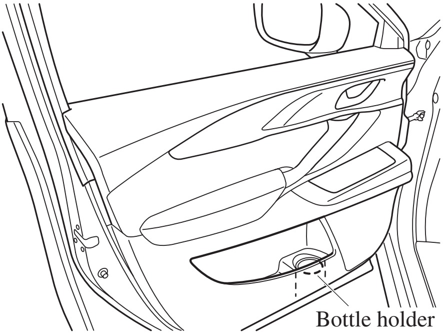
Bottle Holder

Bottle holders are on the inside of the doors.



CAUTION

Do not use the bottle holders for containers without caps. The contents may spill when the door is opened or closed.

Storage Compartments

WARNING

Keep storage boxes closed when driving:

Driving with the storage boxes open is dangerous. To reduce the possibility of injury in an accident or a sudden stop, keep the storage boxes closed when driving.

Do not put articles in storage spaces with no lid:

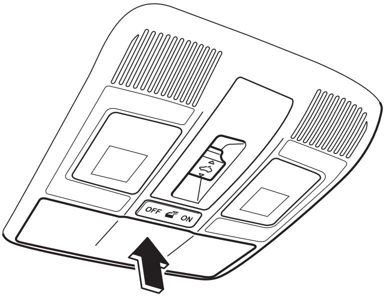
Putting articles in storage spaces with no lid is dangerous as they could be thrown around the cabin if the vehicle is suddenly accelerated and cause injury depending on how the article is stored.

CAUTION

Do not leave lighters or eyeglasses in the storage boxes while parked under the sun. A lighter could explode or the plastic material in eyeglasses could deform and crack from high temperature.

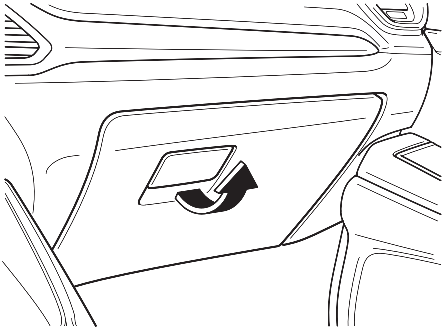
▼Overhead Console

This console box is designed to store eyeglasses or other accessories.
Push and release to open.



▼Glove Compartment

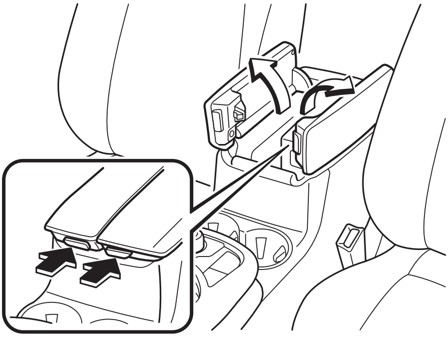
To open the glove compartment, pull the latch toward you.



To close the glove compartment, firmly press in the center of the glove compartment lid.

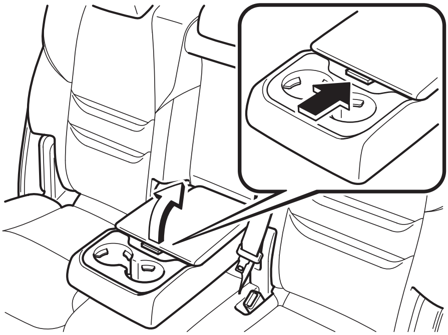
▼Center Console

To open, push the button.



▼Armrest Box*

To open, push the button and pull up the lid.



---

*Some models.

Interior Equipment

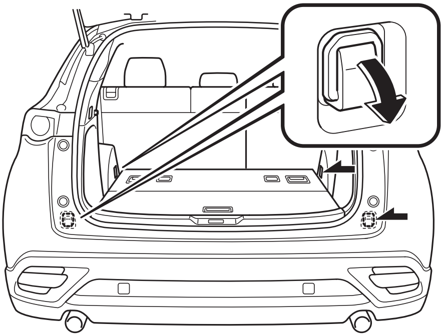
▼Cargo Securing Loops

⚠ WARNING

Make sure luggage and cargo is secured before driving:

> *Not securing cargo while driving is dangerous as it could move or be crushed during sudden braking or a collision and cause injury.*

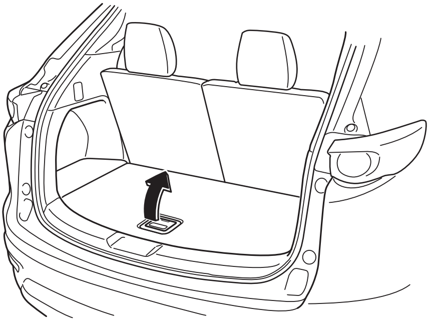
Use the loops in the luggage compartment to secure cargo with a rope or net. The tensile strength of the loops is 196 N (20 kgf, 44 lbf). Do not apply excessive force to the loops as it will damage them.



▼Cargo Sub-Compartment

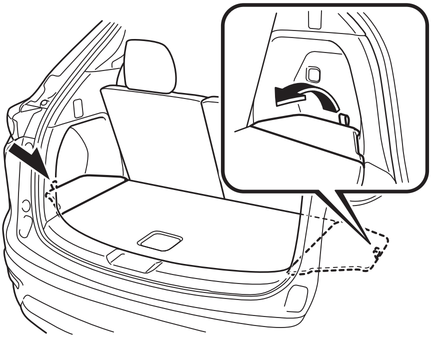
Center cargo sub-compartment*

Raise the luggage board to put small items in the cargo sub-compartment.



Side cargo sub-compartment

Open the cover to put small items in the cargo sub-compartment.



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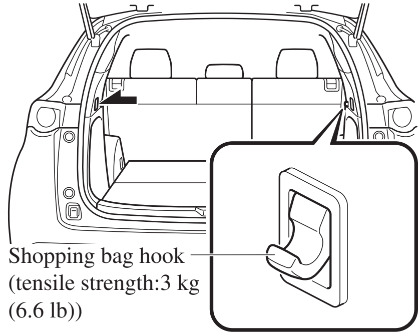
*Some models.

▼Shopping Bag Hook

The shopping bag hook can be used for hanging shopping bags.

CAUTION

Do not hang excessive weight on the shopping bag hook as it could be damaged.



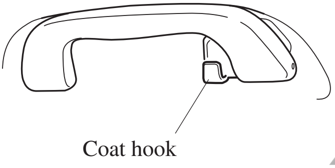
▼Rear Coat Hooks

WARNING

Never hang heavy or sharp objects on the assist grips and coat hooks:

Hanging heavy or sharp-ended objects such as a coat hanger from the assist grips or coat hooks is dangerous as they can fly off and hit an occupant in the cabin if a curtain air bag was to deploy, which could result in serious injury or death.

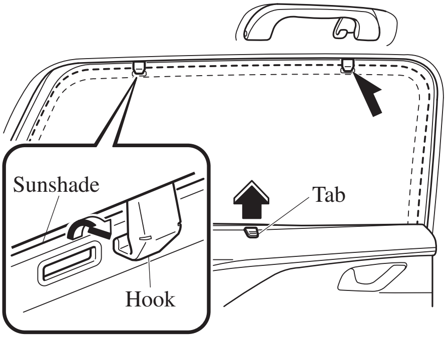
Always hang clothes on the coat hooks and the assist grips without hangers.



Sunshade (Rear Door Window)*

The sunshades are equipped to the windows on both sides of the second-row seats.

Hold the tab and pull the sunshade upward and hook the slots.



To return the sunshade to its original position, unhook the sunshade and retract it slowly.

CAUTION

- *Securely hook the sunshade. Otherwise, the sunshade may retract suddenly resulting in injury such as fingers get pinched.*
- *Use the sunshades only when the windows are fully closed. Using a sunshade while a window is open could cause is to unhook and flap around inside the cabin where it can hit someone sitting near the window, resulting in injury.*

*Some models.

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MEMO

6 Maintenance and Care

How to keep your Mazda in top condition.

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Introduction

Be careful not to hurt yourself when inspecting your vehicle, replacing a tire, or doing some kind of maintenance such as car washing.
In particular, wear thick work gloves such as cotton gloves when touching areas that are difficult to see while inspecting or working on your vehicle. Doing inspections or procedures with your bare hands could cause injury.

If you are unsure about any procedure it describes, we strongly urge you to have a reliable and qualified service shop perform the work, preferably an Authorized Mazda Dealer.

Factory-trained Mazda technicians and genuine Mazda parts are best for your vehicle. Without this expertise and the parts that have been designed and made especially for your Mazda, inadequate, incomplete, and insufficient servicing may result in problems. This could lead to vehicle damage or an accident and injuries.

For expert advice and quality service, consult an Authorized Mazda Dealer.

To continue warranty eligibility and to protect your investment, it is your responsibility to properly maintain your vehicle according to factory recommended schedules outlined in this manual. As part of this you must keep your maintenance records, receipts, repair orders and any other documents as evidence this maintenance was performed. You must present these documents, should any warranty coverage disagreement occur. Failure to do so can result in your warranty being voided either in whole or in part.

This evidence may consist of the following:

- The Mazda Scheduled Maintenance Record, refer to the Warranty Booklet, must be completely filled out showing mileage, repair order number, date for each service, and signed by a qualified automotive service technician who service vehicles.
- Original copies of repair orders or other receipts that include the mileage and date the vehicle was serviced. Each receipt should be signed by a qualified automotive service technician.
- For self maintenance, a statement that you completed the maintenance yourself, displaying mileage and the date the work was performed. Also, receipts for the replacement parts (fluid, filters, etc.) indicating the date and mileage must accompany this statement.

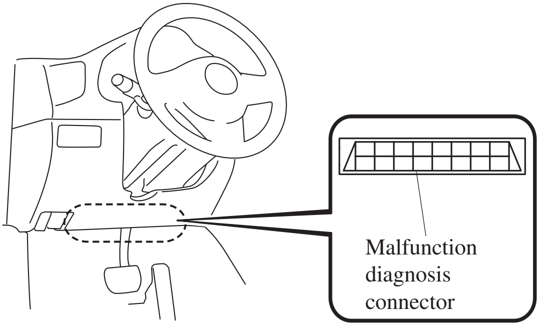
NOTE

If you elect to perform maintenance yourself or have your vehicle serviced at a location other than an Authorized Mazda Dealer, Mazda requires that all fluids, parts and materials must meet Mazda standards for durability and performance as described in this manual.

Claims against the warranty resulting from lack of maintenance, as opposed to defective materials or authorized Mazda workmanship, will not be honored.

Any auto repair shop using parts equivalent to your Mazda's original equipment may perform maintenance. **But we recommend that it always be done by an Authorized Mazda Dealer using genuine Mazda parts.**
Selecting “Maintenance Monitor” enables the system to notify you of your vehicle's approaching inspection/servicing period (page 6-19).

The malfunction diagnosis connector is designed exclusively for connecting the specially designed device to perform on-board diagnosis.
Do not connect any devices other than the specially designed malfunction diagnosis devices for servicing. If any device other than the malfunction diagnosis device is connected, it may affect the vehicle's electrical devices or lead to damage such as battery depletion.



Scheduled Maintenance (U.S.A., Canada, and Puerto Rico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions (severe driving conditions)apply.

- Repeated short-distance driving
- Driving in dusty conditions
- Driving with extended use of brakes
- Driving in areas where salt or other corrosive materials are used
- Driving on rough or muddy roads
- Extended periods of idling or low-speed operation
- Driving for long periods in cold temperatures or extremely humid climates
- Driving in extremely hot conditions
- Driving in mountainous conditions continually

If any do apply, follow Schedule 2. (Canada residents follow Schedule 2.)

Vehicles using Engine Oil Flexible Maintenance

Engine Oil Flexible Maintenance is selected by default for U.S.A. and Puerto Rico residents. If any following conditions do apply, follow Schedule 2 with engine oil fixed maintenance.

- Extended periods of idling or low-speed operation such as police car, taxi or driving school car
- Driving in dusty conditions

The vehicle calculates the remaining oil life based on engine operating conditions. The vehicle lets you know when an oil change is due by illuminating the wrench indicator light in the instrument cluster. Change the oil as soon as possible within the next 1000 km (600 mile) or 15 days. Refer page 6-19 for the details.

NOTE

- *Please ensure that the Flexible Oil Maintenance Setting is reset after each Oil and Filter replacement.*
- *For maintenance guidelines beyond the miles/months listed, follow the maintenance intervals provided in the Scheduled Maintenance Tables.*

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▼Schedule 1

U.S.A. and Puerto Rico residents - Engine oil flexible maintenance interval

Use when the maintenance monitor for “Oil Change” is set to “Flexible”. For details, see maintenance monitor. (page 6-19)

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.							
	Months	12	24	36	48	60	72	84	96
	×1000 km	12	24	36	48	60	72	84	96
	×1000 miles	7.5	15	22.5	30	37.5	45	52.5	60
ENGINE									
Drive belts				I			I		
Engine oil & filter[*1]		Replace when wrench indicator light is ON. (Max interval: 12 months or 12,000 km (7,500 miles))							
COOLING SYSTEM									
Engine coolant[*2]		Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.							
FUEL SYSTEM									
Air filter		Replace when any equivalent timing of replacing engine oil. (Max interval: 36 months or 60,000 km (37,500 miles))							
Fuel lines and hoses[*3]			I		I		I		I
Hoses and tubes for emission[*3]					I				I
IGNITION SYSTEM									
Spark plugs		Replace every 64,000 km (40,000 miles).							
CHASSIS and BODY									
Brake lines, hoses and connections			I		I		I		I
Disc brakes		I	I	I	I	I	I	I	I
Tire (Rotation)[*4]		Rotate when any equivalent timing of replacing engine oil. (Max interval: 12,000 km (7,500 miles))							
Steering operation and linkages			I		I		I		I
Front and rear suspension, ball joints and wheel bearing axial play			I		I		I		I
Rear differential oil		[*5]							
Transfer oil		[*5]							
Driveshaft dust boots			I		I		I		I
Bolts and nuts on chassis and body			T		T		T		T
Exhaust system and heat shields						I			
Emergency flat tire repair kit (if installed)[*6]		Inspect annually.							
AIR CONDITIONER SYSTEM									
Cabin air filter		Replace when any equivalent timing of replacing engine oil. (Max interval: 24 months or 48,000 km (30,000 miles))							

Scheduled Maintenance

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
T: Tighten

Remarks:

*1 The engine oil and filter must be changed at least once a year or within 12,000 km (7,500 miles) since last engine oil and filter change. Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or mileage/kilometer period to ensure long-term reliability.
*4 The Tire Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).
*5 If this component has been submerged in water, the oil should be replaced.
*6 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

▼Schedule 2

U.S.A. and Puerto Rico residents - Severe driving conditions maintenance interval

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.											
	Months	6	12	18	24	30	36	42	48	54	60	66	72
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE													
Drive belts							I						I
Engine oil & filter	Flexible[*1]	Replace when wrench indicator light is ON. (Max interval: 12 months or 12,000 km (7,500 miles))											
	Fixed[*2]	R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM													
Engine coolant[*3]		Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM													
Air filter[*4]		Replace when any equivalent timing of replacing engine oil. (Max interval: 36 months or 60,000 km (37,500 miles))											
Fuel lines and hoses[*5]					I				I				I
Hoses and tubes for emission[*5]									I				
IGNITION SYSTEM													
Spark plugs		Replace every 64,000 km (40,000 miles).											
ELECTRICAL SYSTEM													
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

Maintenance Interval	**Number of months or kilometers (miles), whichever comes first.**												
	Months	**6**	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
	×1000 km	**8**	**16**	**24**	**32**	**40**	**48**	**56**	**64**	**72**	**80**	**88**	**96**
	×1000 miles	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**	**50**	**55**	**60**
CHASSIS and BODY													
Brake lines, hoses and connections					I				I				I
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes			I		I		I		I		I		I
Tire (Rotation)[*6]		Rotate when any equivalent timing of replacing engine oil. (Max interval: 8,000 km (5,000 miles))											
Tire inflation pressure and tire wear[*6]		I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages					I				I				I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Rear differential oil		[*7]											
Transfer oil		[*7]											
Driveshaft dust boots					I				I				I
Bolts and nuts on chassis and body					T				T				T
Exhaust system and heat shields		Inspect every 72,000 km (45,000 miles) or 5 years.											
All locks and hinges		L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Emergency flat tire repair kit (if installed)[*8]		Inspect annually.											
AIR CONDITIONER SYSTEM													
Cabin air filter		Replace every 40,000 km (25,000 miles) or 2 years.											

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
R: Replace
L: Lubricate
T: Tighten

Remarks:

*1 Engine oil flexible maintenance is available for U.S.A. and Puerto Rico residents whose vehicle is operated mainly where none of the following conditions apply.

- Extended periods of idling or low-speed operation such as police car, taxi or driving school car
- Driving in dusty conditions

If any do apply, follow fixed maintenance.
The engine oil and filter must be changed at least once a year or within 12,000 km (7,500 miles) since last engine oil and filter change. The system must be reset whenever replacing the engine oil regardless of the message/wrench indicator light display.

*2 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.

*3 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.

*4 If the vehicle is operated in very dusty or sandy areas, clean and if necessary, replace the air filter more often than the recommended intervals.
*5 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or mileage/kilometer period to ensure long-term reliability.
*6 The Tire Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).
*7 If this component has been submerged in water, the oil should be replaced.
*8 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

Scheduled Maintenance

Canada residents

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.												
	Months	6	12	18	24	30	36	42	48	54	60	66	72
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE													
Drive belts							I						I
Engine oil & filter*1		R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM													
Engine coolant*2		Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM													
Air filter		I	I	I	I	I	I	I	I	I	I	I	I
		Replace every 56,000 km (35,000 miles) or 3 years.											
Fuel lines and hoses*3					I				I				I
Hoses and tubes for emission*3									I				
IGNITION SYSTEM													
Spark plugs		Replace every 64,000 km (40,000 miles).											
ELECTRICAL SYSTEM													
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I
CHASSIS and BODY													
Brake lines, hoses and connections					I				I				I
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes		Inspect every 24,000 km (15,000 miles) or 1 years.											
Tire (Rotation)*4		Rotate every 8,000 km (5,000 miles).											
Tire inflation pressure and tire wear*4		I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages					I				I				I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Rear differential oil		*5											
Transfer oil		*5											
Driveshaft dust boots					I				I				I
Bolts and nuts on chassis and body					T				T				T
Exhaust system and heat shields		Inspect every 72,000 km (45,000 miles) or 5 years.											
All locks and hinges		L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Emergency flat tire repair kit (if installed)*6		Inspect annually.											

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.												
	Months	**6**	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
	×1000 km	**8**	**16**	**24**	**32**	**40**	**48**	**56**	**64**	**72**	**80**	**88**	**96**
	×1000 miles	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**	**50**	**55**	**60**
AIR CONDITIONER SYSTEM													
Cabin air filter		Replace every 40,000 km (25,000 miles) or 2 years.											

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
R: Replace
L: Lubricate
T: Tighten

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or mileage/kilometer period to ensure long-term reliability.
*4 The Tire Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).
*5 If this component has been submerged in water, the oil should be replaced.
*6 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

Scheduled Maintenance (Mexico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions (severe driving conditions) apply.

- Repeated short-distance driving
- Driving in dusty conditions
- Driving with extended use of brakes
- Driving in areas where salt or other corrosive materials are used
- Driving on rough or muddy roads
- Extended periods of idling or low-speed operation
- Driving for long periods in cold temperatures or extremely humid climates
- Driving in extremely hot conditions
- Driving in mountainous conditions continually

If any do apply, follow Schedule 2.

NOTE

For maintenance guidelines beyond the kilometers/months listed, follow the maintenance intervals provided in the Scheduled Maintenance Tables.

▼Schedule 1

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	6	12	18	24	30	36	42	48	54	60	66	72
	×1000 km	10	20	30	40	50	60	70	80	90	100	110	120
ENGINE													
Drive belts					I				I				I
Engine oil & filter[*1]		R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM													
Cooling system					I				I				I
Engine coolant[*2]		Replace at first 200,000 km or 10 years; after that, every 100,000 km or 5 years											
FUEL SYSTEM													
Air filter			R		R		R		R		R		R
Fuel lines and hoses					I[*3]				I[*3]				I
Hoses and tubes for emission					I[*3]				I[*3]				I
Fuel filter		Replace every 60,000 km											
IGNITION SYSTEM													
Spark plugs		I	I	I	I	I	I	I	I	I	I	I	I
		Replace every 64,000 km											
CHASSIS and BODY													
Brake lines, hoses and connections			I		I		I		I		I		I
Brake and clutch fluid level		I	I	I		I	I	I		I	I	I	
Brake fluid					R				R				R
Disc brakes		I	I	I	I	I	I	I	I	I	I	I	I
Tire (Rotation)[*4]		Rotate every 10,000 km											
Tire inflation pressure and tire wear[*4]		I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages		I	I	I	I	I	I	I	I	I	I	I	I
Front and rear suspension, ball joints and wheel bearing axial play			I		I		I		I		I		I
Rear differential oil		[*5]											
Transfer oil		[*5]											
Driveshaft dust boots			I		I		I		I		I		I
Bolts and nuts on chassis and body			T		T		T		T		T		T
Exhaust system and heat shields			I		I		I		I		I		I
All locks and hinges		L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Emergency flat tire repair kit (if installed)[*6]		Inspect annually.											

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	6	12	18	24	30	36	42	48	54	60	66	72
	×1000 km	10	20	30	40	50	60	70	80	90	100	110	120
AIR CONDITIONER SYSTEM													
Cabin air filter					R				R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
R: Replace
L: Lubricate
T: Tighten

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or kilometer period to ensure long-term reliability.
*4 The Tire Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).
*5 If this component has been submerged in water, the oil should be replaced.
*6 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

▼Schedule 2

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	3	6	9	12	15	18	21	24	27	30	33	36
	×1000 km	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE													
Drive belts									I				
Engine oil & filter[*1]		R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM													
Cooling system									I				
Engine coolant[*2]		Replace at first 200,000 km or 10 years; after that, every 100,000 km or 5 years											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM													
Air filter			C		R		C		R		C		R
Fuel lines and hoses									I[*3]				
Hoses and tubes for emission									I[*3]				
Fuel filter		Replace every 60,000 km											
IGNITION SYSTEM													
Spark plugs			I		I		I		I		I		I
		Replace every 64,000 km											
ELECTRICAL SYSTEM													
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	3	6	9	12	15	18	21	24	27	30	33	36
	×1000 km	5	10	15	20	25	30	35	40	45	50	55	60
CHASSIS and BODY													
Brake lines, hoses and connections					I				I				I
Brake and clutch fluid level			I		I		I				I		I
Brake fluid									R				
Disc brakes			I		I		I		I		I		I
Tire (Rotation)[*4]		Rotate every 10,000 km											
Tire inflation pressure and tire wear[*4]			I		I		I		I		I		I
Steering operation and linkages			I		I		I		I		I		I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Rear differential oil		[*5]											
Transfer oil		[*5]											
Driveshaft dust boots					I				I				I
Bolts and nuts on chassis and body					T				T				T
Exhaust system and heat shields					I				I				I
All locks and hinges			L		L		L		L		L		L
Washer fluid level			I		I		I		I		I		I
Emergency flat tire repair kit (if installed)[*6]		Inspect annually.											
AIR CONDITIONER SYSTEM													
Cabin air filter					R				R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
R: Replace
L: Lubricate
C: Clean
T: Tighten

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or kilometer period to ensure long-term reliability.
*4 The Tire Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).
*5 If this component has been submerged in water, the oil should be replaced.
*6 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

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(Cont.)

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	**39**	**42**	**45**	**48**	**51**	**54**	**57**	**60**	**63**	**66**	**69**	**72**
	×1000 km	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**
ENGINE													
Drive belts					I								I
Engine oil & filter[*1]		R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM													
Cooling system					I								I
Engine coolant[*2]		Replace at first 200,000 km or 10 years; after that, every 100,000 km or 5 years											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM													
Air filter			C		R		C		R		C		R
Fuel lines and hoses					I[*3]								I
Hoses and tubes for emission					I[*3]								I
Fuel filter		Replace every 60,000 km											
IGNITION SYSTEM													
Spark plugs			I		I		I		I		I		I
		Replace every 64,000 km											
ELECTRICAL SYSTEM													
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	39	42	45	48	51	54	57	60	63	66	69	72
	×1000 km	65	70	75	80	85	90	95	100	105	110	115	120
CHASSIS and BODY													
Brake lines, hoses and connections					I				I				I
Brake and clutch fluid level			I				I		I		I		
Brake fluid					R								R
Disc brakes			I		I		I		I		I		I
Tire (Rotation)*4		Rotate every 10,000 km											
Tire inflation pressure and tire wear*4			I		I		I		I		I		I
Steering operation and linkages			I		I		I		I		I		I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Rear differential oil		*5											
Transfer oil		*5											
Driveshaft dust boots					I				I				I
Bolts and nuts on chassis and body					T				T				T
Exhaust system and heat shields					I				I				I
All locks and hinges			L		L		L		L		L		L
Washer fluid level			I		I		I		I		I		I
Emergency flat tire repair kit (if installed)*6		Inspect annually.											
AIR CONDITIONER SYSTEM													
Cabin air filter					R				R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
R: Replace
L: Lubricate
C: Clean
T: Tighten

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or kilometer period to ensure long-term reliability.
*4 The Tire Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).
*5 If this component has been submerged in water, the oil should be replaced.
*6 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

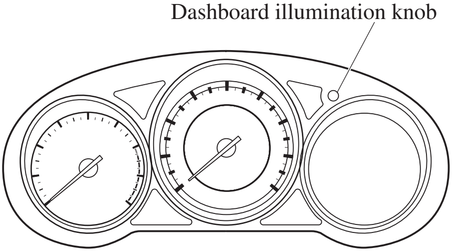
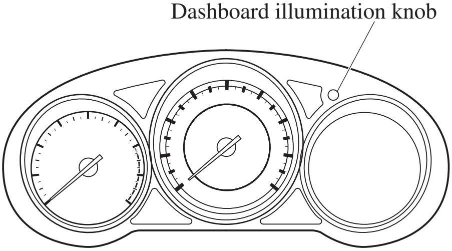
Maintenance Monitor

1. Select the Ⓐ icon on the home screen to display the “Applications” screen.
2. Select “Vehicle Status Monitor”.
3. Select “Maintenance” to display the maintenance list screen.
4. Switch the tab and select the setting item you want to change.

You can customize settings in the setup display as follows:

Tab	Item	Explanation
Scheduled	Setting	Notification can be switched on/off.
	Time (months)	Displays the time or distance until maintenance is due. Select this item to set the maintenance period. The wrench indication/indicator light in the instrument cluster will be illuminated when the remaining distance is less than 1,000 km or 600 mile, or the remaining number of days is less than 15 (whichever comes first).
	Distance (mile or km)	
	Reset	Resets the time and distance to the initial values. Once the system turns on, it needs to be reset whenever carrying out maintenance.
Tire Rotation	Setting	Notification can be switched on/off.
	Distance (mile or km)	Displays the distance until tire rotation is due. Select this item to set the tire rotation distance. The wrench indication/indicator light in the instrument cluster will be illuminated when the remaining distance is less than 1,000 km or 600 mile.
	Reset	Resets the remaining distance to the initial value. Once the system turns on, it needs to be reset whenever rotating the tires.
Oil Change	Setting Interval	Oil replacement period can be selected from the flexible setting or fixed setting, or it can be set to non-display. The flexible setting is available only in the United States and Puerto Rico. Once engine oil flexible maintenance is selected, the vehicle calculates the remaining oil life based on the engine operating conditions. The vehicle lets you know when an oil change is due by illuminating the wrench indication/indicator light in the instrument cluster.
	Distance (mile or km) (Displays only in fixed setting)	Displays the distance until the oil replacement is due. Select this item to set the oil replacement distance. The wrench indication/indicator light in the instrument cluster will be illuminated when the remaining distance is less than 1,000 km or 600 mile.
	Distance (mile or km) (Displays only in flexible setting)	Displays the distance until the oil replacement is due. The wrench indication/indicator light in the instrument cluster will be illuminated when the remaining oil life distance is less than 1,000 km or 600 mile, or remaining days are less than 15 (whichever comes first).

Scheduled Maintenance

Tab	Item	Explanation
Oil Change	Reset	**In flexible setting** Resets the remaining distance until oil replacement is due to the initial value. **In fixed setting** Resets the remaining distance until oil replacement is due to the initial value. In addition, a vehicle engine control unit reset is required as follows: Press and hold the dashboard illumination knob with the ignition switched OFF, then switch it ON. Keep pressing the dashboard illumination knob for more than 7 seconds.  **In OFF setting** Press and hold the dashboard illumination knob with the ignition switched OFF, then switch it ON. Keep pressing the dashboard illumination knob for more than 7 seconds. 

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Owner Maintenance Precautions

The owner or a qualified service technician should make these vehicle inspections at the indicated intervals to ensure safe and dependable operation.

Bring any problem to the attention of an Authorized Mazda Dealer or qualified service technician as soon as possible.

When Refueling

- Brake fluid level (page 6-31)
- Engine coolant level (page 6-29)
- Engine oil level (page 6-29)
- Washer fluid level (page 6-31)

At Least Monthly

Tire inflation pressures (page 6-43)

At Least Twice a Year (For Example, Every Spring and Fall)

You can do the following scheduled maintenance items if you have some mechanical ability and a few basic tools and if you closely follow the directions in this manual.

- Engine coolant (page 6-29)
- Engine oil (page 6-26)

Improper or incomplete service may result in problems. This section gives instructions only for items that are easy to perform.

As explained in the Introduction (page 6-2), several procedures can be done only by a qualified service technician with special tools.

Improper owner maintenance during the warranty period may affect warranty coverage. Refer to Introduction (page 6-2) for owner's responsibility in protecting your investment. For details, read the separate Mazda Warranty statement provided with the vehicle. If you are unsure about any servicing or maintenance procedure, have it done by an Authorized Mazda Dealer.

There are strict environmental laws regarding the disposal of waste oil and fluids. Please dispose of your waste properly and with due regard to the environment.

We recommend that you entrust the oil and fluid changes of your vehicle to an Authorized Mazda Dealer.

⚠ WARNING

Do not perform maintenance work if you lack sufficient knowledge and experience or the proper tools and equipment to do the work. Have maintenance work done by a qualified technician:

Performing maintenance work on a vehicle is dangerous if not done properly. You can be seriously injured while performing some maintenance procedures.

If you must run the engine while working under the hood, make certain that you remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the engine or cooling fan which may turn on unexpectedly:

Working under the hood with the engine running is dangerous. It becomes even more dangerous when you wear jewelry or loose clothing.
Either can become entangled in moving parts and result in injury.

Pull over to a safe location, then switch the ignition off and make sure the fan is not running before attempting to work near the cooling fan:

Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.

Do not leave items in the engine compartment:

After you have finished checking or doing servicing in the engine compartment, do not forget and leave items such as tools or rags in the engine compartment.
Tools or other items left in the engine compartment could cause engine damage or a fire leading to an unexpected accident.

Hood

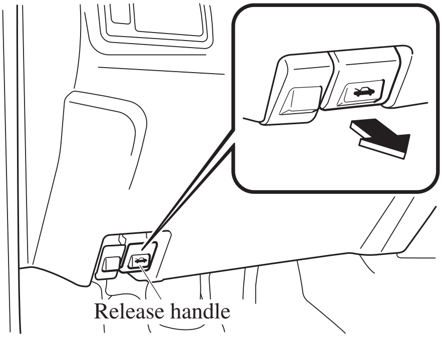
⚠ WARNING

Always check that the hood is closed and securely locked:

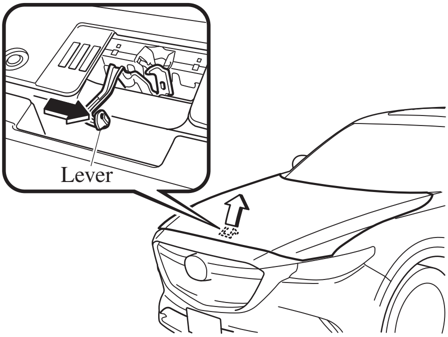
A hood that is not closed and securely locked is dangerous as it could fly open while the vehicle is moving and block the driver's vision which could result in a serious accident.

▼Opening the Hood

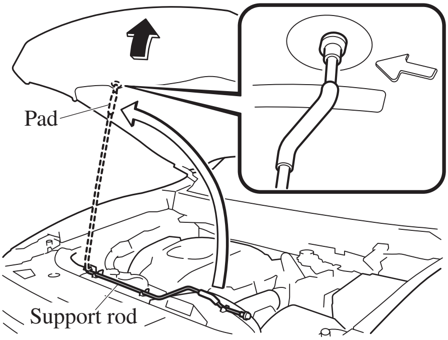
1. With the vehicle parked, pull the release handle to unlock the hood.



2. Insert your hand into the hood opening, slide the latch lever to the right, and lift up the hood.

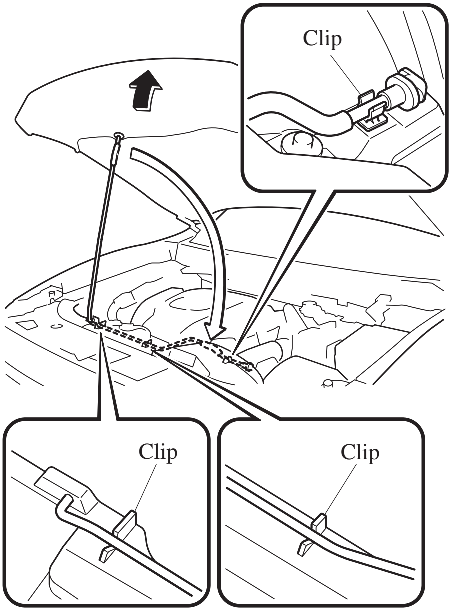


3. Grasp the support rod in the padded area and secure it in the support rod hole indicated by the arrow to hold the hood open.



▼Closing the Hood

1. Check under the hood area to make certain all filler caps are in place and all loose items (e.g. tools, oil containers, etc.) have been removed.
2. Lift the hood, grasp the padded area on the support rod, and secure the support rod in the clip. Verify that the support rod is secured in the clip before closing the hood.

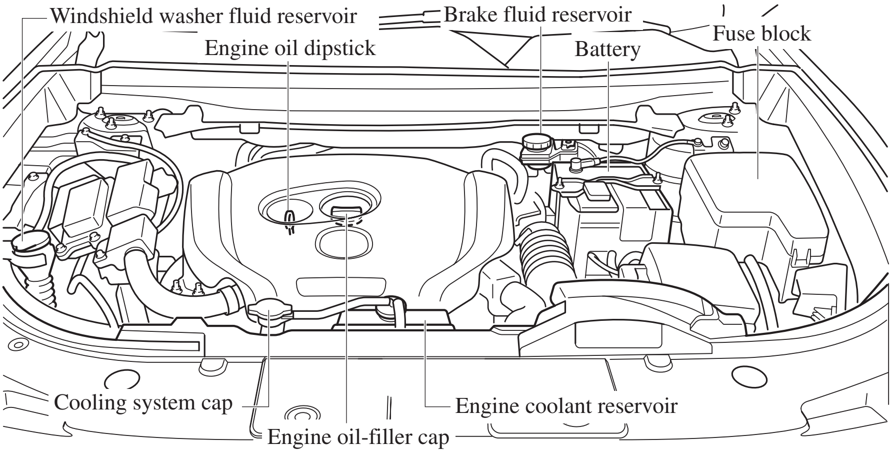


3. Lower the hood slowly to a height of about 20 cm (7.9 in) above its closed position and then let it drop.

⚠CAUTION

When closing the hood, do not push it excessively such as by applying your weight. Otherwise, the hood could be deformed.

Engine Compartment Overview


Windshield washer fluid reservoir
Brake fluid reservoir
Fuse block
Engine oil dipstick
Battery
Cooling system cap
Engine coolant reservoir
Engine oil-filler cap

Engine Oil

NOTE

Changing the engine oil should be performed by an Authorized Mazda Dealer.

Refer to Introduction (page 6-2) for owner's responsibility in protecting your investment.

▼Recommended Oil

U.S.A., Canada, and Puerto Rico

Use SAE 5W-30 engine oil.

Mazda Genuine Oil is used in your Mazda vehicle. Mazda Genuine 5W-30 Oil is required to achieve optimum fuel economy.

For maintenance service, Mazda recommends Mazda Genuine Parts and Castrol® (U.S.A. only).

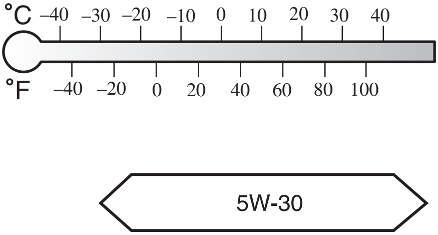
Castrol®

AMERICAN PETROLEUM INSTITUTE
FOR GASOLINE ENGINES
CERTIFIED

(ILSAC)

Only use SAE 5W-30 oil “Certified For Gasoline Engines” by the American Petroleum Institute (API).

Oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.



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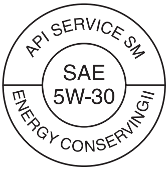
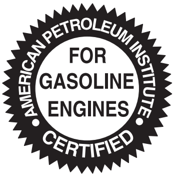
Except U.S.A., Canada, and Puerto Rico

Use SAE 5W-30 engine oil.
Oil container labels provide important information.
A chief contribution this type of oil makes to fuel economy is reducing the amount of fuel necessary to overcome engine friction.

For maintenance service, Mazda recommends Mazda Genuine Parts and Castrol® (Mexico only).

Castrol®


API SERVICE SM
SAE
5W-30
ENERGY CONSERVING II

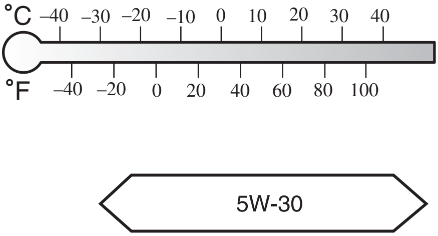

AMERICAN PETROLEUM INSTITUTE
FOR
GASOLINE
ENGINES
CERTIFIED

(ILSAC)

(Mexico)

Use SAE 5W-30 engine oil. If SAE 5W-30 engine oil is not available, use SAE 0W-30 or SAE 10W-30 engine oil.

The quality designation SM or SN, or ILSAC must be on the label.



▼Vehicle Engine Control Unit Reset Procedure

After replacing the engine oil, it is recommended to have a repair shop such as an Authorized Mazda Dealer perform the initialization (engine oil data resetting) of the recorded value. If the value recorded by the computer is not initialized, the wrench indicator light may not turn off or it may turn on earlier than normal.

NOTE

There are two methods for resetting the engine control unit.

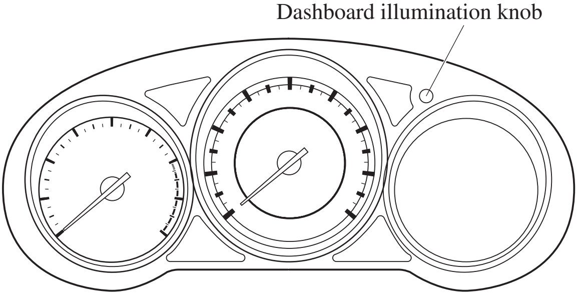
1. *The procedure described in the following.*
2. *The procedure described in the maintenance monitor item when the flexible maintenance setting is selected. Refer to Maintenance Monitor on page 6-19.*

If either one of the methods is performed, resetting of the engine control unit is completed.

NOTE

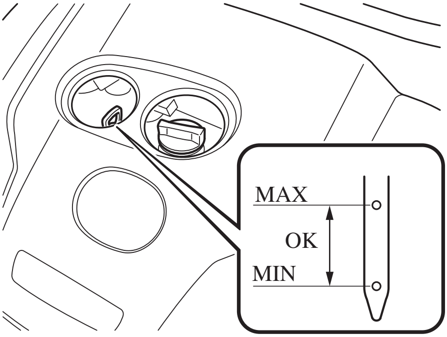
The initialization (engine oil data resetting) of the recorded value can be performed using the following procedure:

1. *Switch the ignition OFF.*
2. *Switch the ignition ON with the dashboard illumination knob pressed, and press and hold the dashboard illumination knob for about 7 seconds.*



▼Inspecting Engine Oil Level

1. Be sure the vehicle is on a level surface.
2. Warm up the engine to normal operating temperature.
3. Turn it off and wait at least 5 minutes for the oil to return to the oil pan.
4. Pull out the dipstick, wipe it clean, and reinsert it fully.



5. Pull it out again and examine the level. The level is normal if it is between the MIN and MAX marks.
   If it is near or below MIN, add enough oil to bring the level to MAX.

⚠ CAUTION

Do not overfill the engine oil. This may cause engine damage.

6. Make sure the O-ring on the dipstick is positioned properly before reinserting the dipstick.
7. Reinsert the dipstick fully.

Engine Coolant

▼Inspecting Coolant Level

⚠ WARNING

Do not use a match or live flame in the engine compartment. DO NOT ADD COOLANT WHEN THE ENGINE IS HOT:

A hot engine is dangerous. If the engine has been running, parts of the engine compartment can become very hot. You could be burned. Carefully inspect the engine coolant in the coolant reservoir, but do not open it.

Pull over to a safe location, then switch the ignition off and make sure the fan is not running before attempting to work near the cooling fan:

Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.

Do not remove either cooling system cap when the engine and radiator are hot:

When the engine and radiator are hot, scalding coolant and steam may shoot out under pressure and cause serious injury.

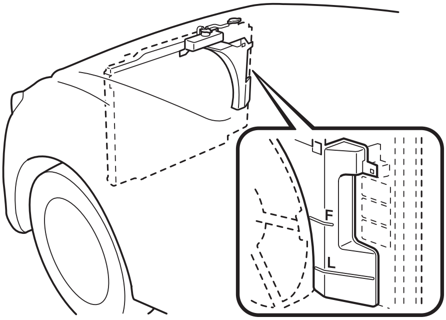
NOTE

Changing the coolant should be done by an Authorized Mazda Dealer.

Inspect the antifreeze protection and coolant level in the coolant reservoir at least once a year—at the beginning of the winter season—and before traveling where temperatures may drop below freezing.

Inspect the condition and connections of all cooling system and heater hoses. Replace any that are swollen or deteriorated.

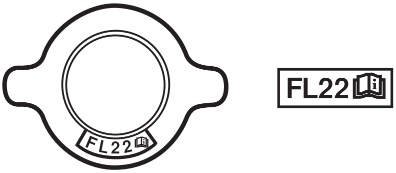
The coolant should be at full in the radiator and between the F and L marks on the coolant reservoir when the engine is cool.



If it is at or near L, add enough coolant to the coolant reservoir to provide freezing and corrosion protection and to bring the level to F.
Securely tighten the coolant reservoir tank cap after adding coolant.

CAUTION

- *Radiator coolant will damage paint. Rinse it off quickly if spilled.*
- *If the “FL22” mark is shown on or near the cooling system cap, use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.*



If the coolant reservoir is empty or new coolant is required frequently, consult an Authorized Mazda Dealer.

Brake Fluid

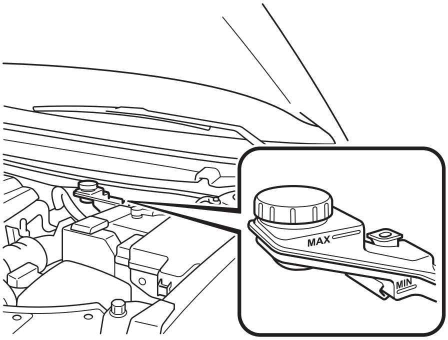
▼Inspecting Brake Fluid Level

WARNING

If the brake fluid level is low, have the brakes inspected:

A low brake fluid level is dangerous. A low level could indicate brake lining wear or a brake system leak which could cause the brakes to fail and lead to an accident.

Inspect the fluid level in the reservoir regularly. It should be kept between the MAX and MIN lines.
The level normally drops with accumulated distance, a condition associated with wear of brake linings. If it is excessively low, have the brake system inspected by an Authorized Mazda Dealer.



Washer Fluid

▼Inspecting Washer Fluid Level

WARNING

Use only windshield washer fluid or plain water in the reservoir:

Using radiator antifreeze as washer fluid is dangerous. If sprayed on the windshield, it will dirty the windshield, affect your visibility, and could result in an accident.

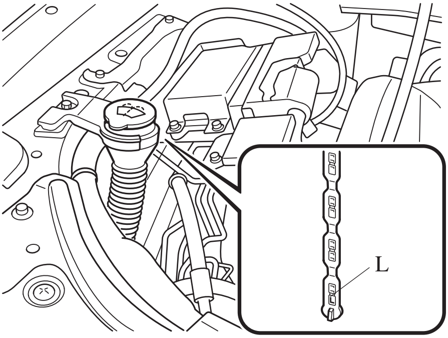
Using Washer Fluid Without Anti-freeze Protection in Cold Weather:

Operating your vehicle in temperatures below 4 degrees C (40 degrees F) using washer fluid without anti-freeze protection is dangerous as it could cause impaired windshield vision and result in an accident. In cold weather, always use washer fluid with anti-freeze protection.

NOTE

State or local regulations may restrict the use of volatile organic compounds (VOCs), which are commonly used as anti-freeze agents in washer fluid. A washer fluid with limited VOC content should be used only if it provides adequate freeze resistance for all regions and climates in which the vehicle will be operated.

Inspect fluid level in the washer fluid reservoir; add fluid if necessary.



Use plain water if washer fluid is unavailable.
But use only washer fluid in cold weather to prevent it from freezing.

NOTE

Front and rear washer fluid is supplied from the same reservoir.

Body Lubrication

All moving points of the body, such as door and hood hinges and locks, should be lubricated each time the engine oil is changed. Use a nonfreezing lubricant on locks during cold weather.

Make sure the hood's secondary latch keeps the hood from opening when the primary latch is released.

Wiper Blades

⚠ CAUTION

- *Hot waxes applied by automatic car washers have been known to affect the wiper's ability to clean windows.*
- *To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.*
- *When the wiper lever is in the AUTO position and the ignition is switched ON, the wipers may move automatically in the following cases:*
  - *If the windshield above the rain sensor is touched.*
  - *If the windshield above the rain sensor is wiped with a cloth.*
  - *If the windshield is struck with a hand or other object.*
  - *If the rain sensor is struck with a hand or other object from inside the vehicle.*

  Be careful not to pinch hands or fingers as it may cause injury, or damage the wipers. When washing or servicing the vehicle, make sure the wiper lever is in the OFF position.

Contamination of either the windshield or the blades with foreign matter can reduce wiper effectiveness. Common sources are insects, tree sap, and hot wax treatments used by some commercial car washes.

If the blades are not wiping properly, clean the window and blades with a good cleaner or mild detergent; then rinse thoroughly with clean water. Repeat if necessary.

▼Replacing Windshield Wiper Blades

When the wipers no longer clean well, the blades are probably worn or cracked. Replace them.

⚠ CAUTION

- *To prevent damage to the wiper arms and other components, do not try to sweep the wiper arm by hand.*
- *Do not bend the blade rubber unnecessarily when replacing it. Otherwise, the metal stiffener in the blade may deform and the windshield wiper operation may be adversely affected.*

NOTE

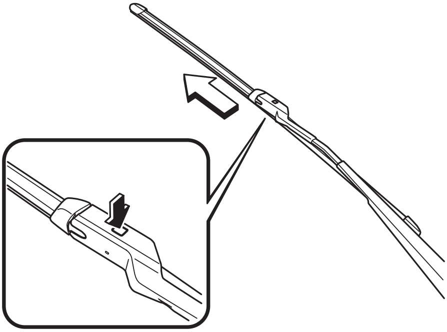
When raising both windshield wiper arms, raise the driver's side wiper arm first. When lowering the wiper arms, slowly lower the wiper arm from the passenger's side first while supporting it with your hand. Forcefully lowering the wiper arms could damage the wiper arm and blade, and may scratch or crack the windshield.

1. Raise the wiper arm.

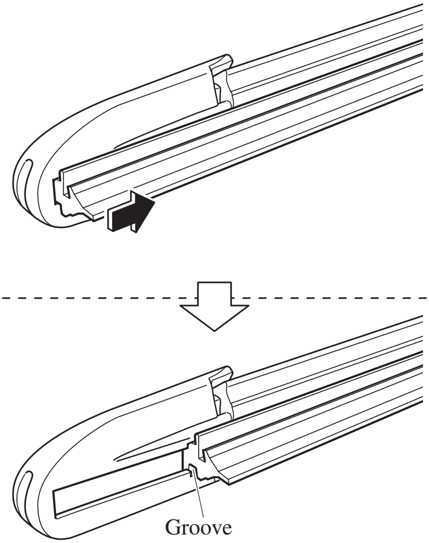
⚠ CAUTION

To prevent damage to the windshield let the wiper arm down easily, do not let it slap down on the windshield.

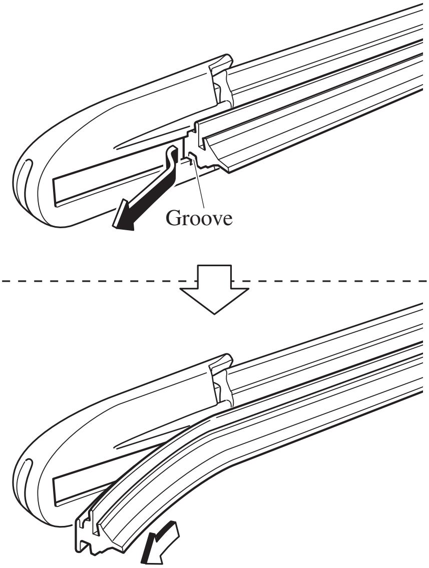
2. Slide the blade component in the direction of the arrow while pressing the wiper arm tab to remove the blade component from the wiper arm.



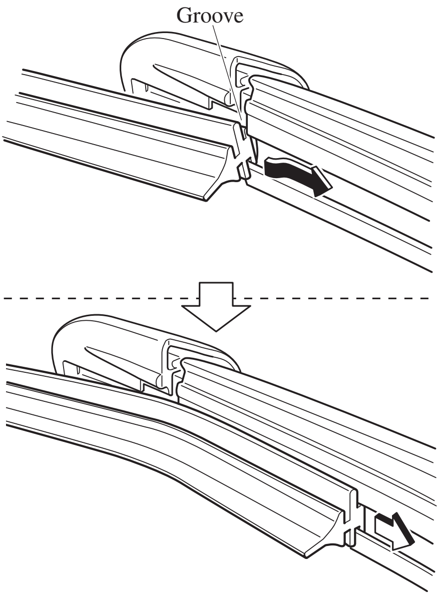
3. Pull the blade rubber in the direction of the arrow and slide it to a position where the blade holder groove can be checked.



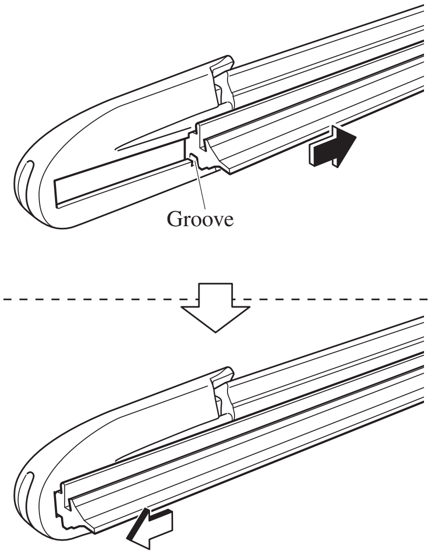
4. Pull the end of the blade rubber from the blade holder groove in the direction of the arrow and remove the blade rubber from the blade holder.



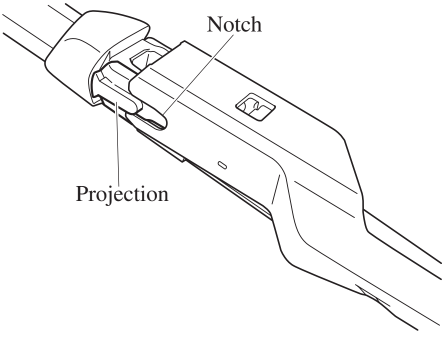
5. Insert the end of the new blade rubber into the groove of the blade holder until it contacts the end of the blade holder.



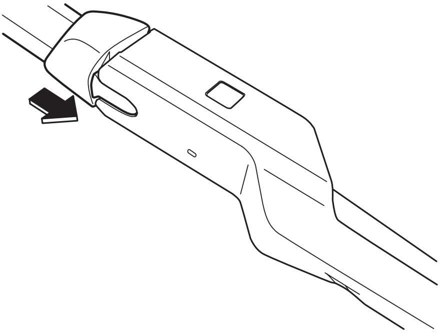
6. After pulling the blade rubber in the direction of the arrow and sliding the blade rubber to a position to check the blade holder groove, slide the blade rubber end in the opposite direction.



7. Make sure that the blade rubber is correctly installed to the blade holder.
8. Align the blade component projection with the wiper arm notch.



9. Slide the blade component and install it to the wiper arm.



10. Slowly lower the wiper arm onto the windshield.

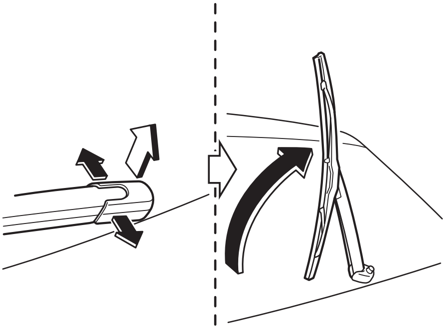
▼Replacing Rear Window Wiper Blade

When the wiper no longer cleans well, the blade is probably worn or cracked. Replace it.

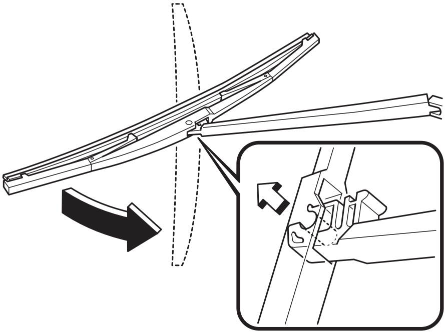
⚠ CAUTION

To prevent damage to the wiper arm and other components, do not move the wiper by hand.

1. Remove the cover and raise the wiper arm.



2. Firmly rotate the wiper blade to the right until it unlocks, then remove the blade.

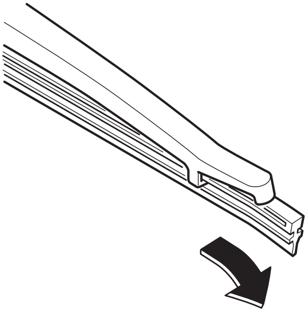


DEP DEALER ePROCESS

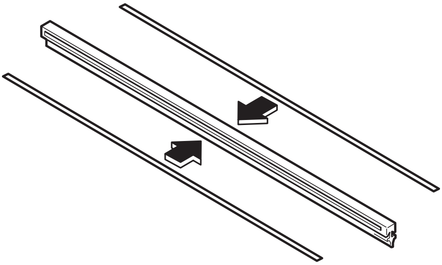
CAUTION

To prevent damage to the rear window, do not let the wiper arm fall on it.

3. Pull down the blade rubber and slide it out of the blade holder.



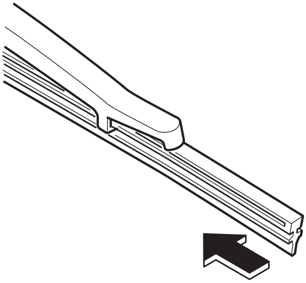
4. Remove the metal stiffeners from the blade rubber and install them in the new blade.



CAUTION

Do not bend or discard the stiffeners. You need to use them again.

5. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



Battery

⚠ WARNING

Wash hands after handling the battery and related accessories:

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.

Read the following precautions carefully before using the battery or inspecting to ensure safe and correct handling:

Always wear eye protection when working near the battery:

Working without eye protection is dangerous. Battery fluid contains SULFURIC ACID which could cause blindness if splashed into your eyes. Also, hydrogen gas produced during normal battery operation, could ignite and cause the battery to explode.

Wear eye protection and protective gloves to prevent contact with battery fluid:

Spilled battery fluid is dangerous.

Battery fluid contains SULFURIC ACID which could cause serious injuries if it gets in eyes, or on the skin or clothing. If this happens, immediately flush your eyes with water for 15 minutes or wash your skin thoroughly and get medical attention.

Always keep batteries out of the reach of children:

Allowing children to play near batteries is dangerous. Battery fluid could cause serious injuries if it gets in the eyes or on the skin.

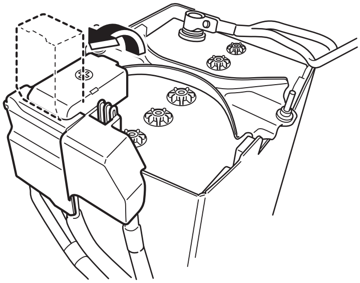
Keep flames and sparks away from open battery cells and do not allow metal tools to contact the positive (+) or negative (−) terminal of the battery when working near a battery. Do not allow the positive (+) terminal to contact the vehicle body:

Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries. Keep all flames including cigarettes and sparks away from open battery cells.

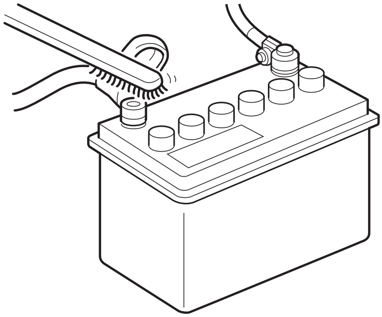
Keep all flames, including cigarettes, and sparks away from open battery cells:
Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries.

NOTE

Before performing battery maintenance, remove the battery cover.



▼Battery Maintenance



To get the best service from a battery:

- Keep it securely mounted.
- Keep the top clean and dry.
- Keep terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse off spilled electrolyte immediately with a solution of water and baking soda.
- If the vehicle will not be used for an extended time, disconnect the battery cables and charge the battery every six weeks.

▼Battery Replacement

Contact an Authorized Mazda Dealer for a battery replacement purchase.

Key Battery Replacement

If the buttons on the transmitter are inoperable and the operation indicator light does not flash, the battery may be dead.
Replace with a new battery before the transmitter becomes unusable.

⚠ CAUTION

- *Make sure the battery is installed correctly. Battery leakage could occur if it is not installed correctly.*
- *When replacing the battery, be careful not to touch any of the internal circuitry and electrical terminals, bend the electrical terminals, or get dirt in the transmitter as the transmitter could be damaged.*
- *There is the danger of explosion if the battery is not correctly replaced.*
- *Dispose of used batteries according to the following instructions.*
  - *Insulate the plus and minus terminals of the battery using cellophane or equivalent tape.*
  - *Never disassemble.*
  - *Never throw the battery into fire or water.*
  - *Never deform or crush.*
- *Replace only with the same type battery (CR2025 or equivalent).*

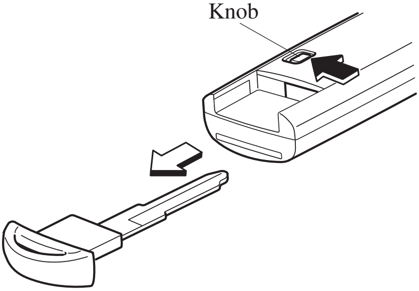
The following conditions indicate that the battery power is low:

- The KEY indicator light (green) flashes in the instrument cluster for about 30 seconds after the engine is turned off (for vehicles with a type A instrument cluster (page 4-31), messages are displayed in the instrument cluster).
- The system does not operate and the operation indicator light on the transmitter does not flash when the buttons are pressed.
- The system's operational range is reduced.

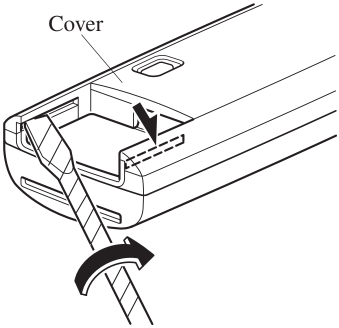
Replacing the battery at an Authorized Mazda Dealer is recommended to prevent damage to the key. If replacing the battery by yourself, follow the instruction.

Replacing the key battery

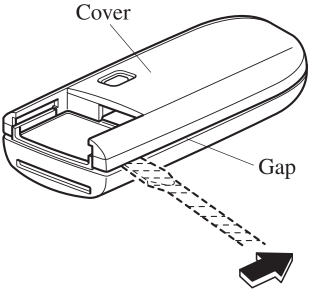
1. Press the knob and pull out the auxiliary key.



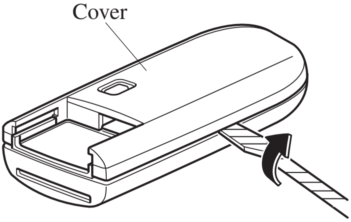
2. Twist a tape-wrapped flathead screwdriver in the direction of the arrow and open the cover slightly.



3. Insert the tape-wrapped flathead screwdriver into the gap and slide it in the direction of the arrow.

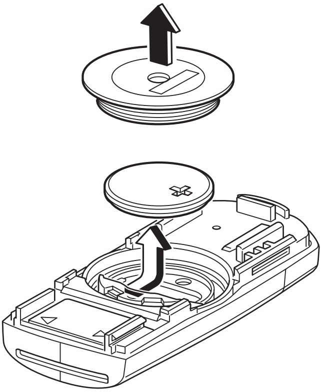


4. Twist the flathead screwdriver in the direction of the arrow and remove the cover.

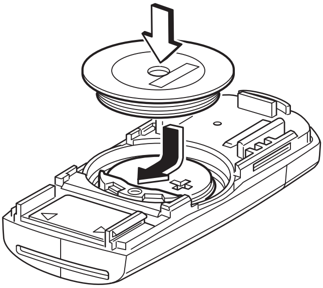


DEP DEALER ePROCESS

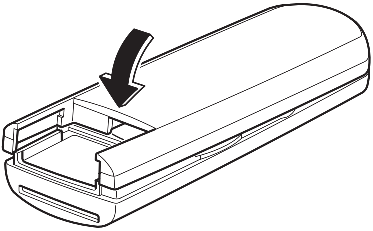
5. Remove the battery cap, then remove the battery.



6. Insert a new battery with the positive pole facing up, and then cover the battery with the battery cap.



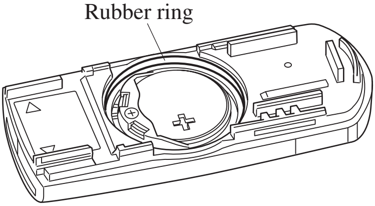
7. Close the cover.



8. Reinsert the auxiliary key.

⚠ CAUTION

- *Be careful not to allow the rubber ring shown in the figure to be scratched or damaged.*
- *If the rubber ring detaches, reattach it before inserting a new battery.*



Tires

For reasons of proper performance, safety, and better fuel economy, always maintain recommended tire inflation pressures and stay within the recommended load limits and weight distribution.

⚠ WARNING

Using Different Tire Types:

Driving your vehicle with different types of tires is dangerous. It could cause poor handling and poor braking; leading to loss of control.
Except for the limited use of the temporary spare tire, use only the same type tires (radial, bias-belted, bias-type) on all four wheels.

Using Wrong-Sized Tires:

Using any other tire size than what is specified for the vehicle (page 9-9) is dangerous. It could seriously affect ride, handling, ground clearance, tire clearance, and speedometer calibration. This could cause you to have an accident. Use only tires that are the correct size specified for the vehicle.

▼ Tire Inflation Pressure

⚠ WARNING

Always inflate the tires to the correct pressure:

Overinflation or underinflation of tires is dangerous. Adverse handling or unexpected tire failure could result in a serious accident.
Refer to Tires on page 9-9.

Use only a Mazda-genuine tire valve cap:

Use of a non-genuine part is dangerous as the correct tire air pressure cannot be maintained if the tire valve becomes damaged. If the vehicle is driven under this condition, the tire air pressure will decrease which could result in a serious accident. Do not use any part for the tire valve cap that is not a Mazda-genuine part.

Inspect all tire pressures monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, handling, and minimum tire wear.
Refer to the specification charts (page 9-9).
(With tire pressure monitoring system)
After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operate normally.
Refer to Tire Pressure Monitoring System Initialization on page 4-153.

NOTE

- *Always check tire pressure when tires are cold.*
- *Warm tires normally exceed recommended pressures. Do not release air from warm tires to adjust the pressure.*
- *Underinflation can cause reduced fuel economy, uneven and accelerated tire wear, and poor sealing of the tire bead, which will deform the wheel and cause separation of tire from rim.*
- *Overinflation can produce a harsh ride, uneven and accelerated tire wear, and a greater possibility of damage from road hazards.*
  Keep your tire pressure at the correct levels. If one frequently needs inflating, have it inspected.

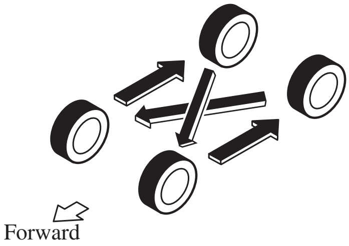
▼Tire Rotation

WARNING

Rotate tires periodically:

Irregular tire wear is dangerous. To equalize tread wear for maintaining good performance in handling and braking, rotate the tires every 12,000 km (7,500 miles). However Mazda recommends to rotate every 8,000 km (5,000 miles) to help increase tire life and distribute wear more evenly. Refer to Scheduled Maintenance on page 6-4.

During rotation, inspect them for correct balance.



Do not include (TEMPORARY USE ONLY) spare tire in rotation.

Also, inspect them for uneven wear and damage. Abnormal wear is usually caused by one or a combination of the following:

- Incorrect tire pressure
- Improper wheel alignment
- Out-of-balance wheel
- Severe braking

After rotation, inflate all tire pressures to specification (page 9-9) and inspect the lug nuts for tightness.

(With tire pressure monitoring system)

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operate normally.

Refer to Tire Pressure Monitoring System Initialization on page 4-153.

CAUTION

Rotate unidirectional tires and radial tires that have an asymmetrical tread pattern or studs only from front to rear, not from side to side. Tire performance will be reduced if rotated from side to side.

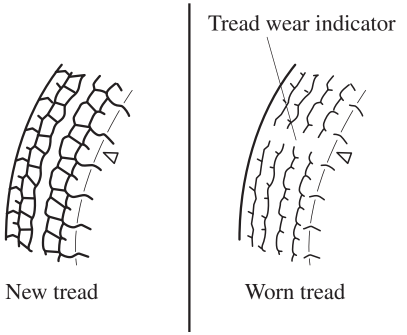
▼Replacing a Tire

⚠ WARNING

Always use tires that are in good condition:
Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident.

Replace all four tires at the same time:
Replacing just one tire is dangerous. It could cause poor handling and poor braking resulting in loss of vehicle control. Mazda strongly recommends that you replace all four tires at the same time.

If a tire wears evenly, a wear indicator will appear as a solid band across the tread. Replace the tire when this happens.



You should replace the tire before the band crosses the entire tread.

(With tire pressure monitoring system)
After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operate normally.
Refer to Tire Pressure Monitoring System Initialization on page 4-153.

NOTE

Tires degrade over time, even when they are not being used on the road. It is recommended that tires generally be replaced when they are 6 years or older. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. You should replace the spare tire when you replace the other road tires due to the aging of the spare tire. The period in which the tire was manufactured (both week and year) is indicated by a 4-digit number.
Refer to Tire Labeling on page 8-24.

▼Temporary Spare Tire

Inspect the temporary spare tire at least monthly to make sure it is properly inflated and stored.

NOTE

The temporary spare tire condition gradually deteriorates even if it has not been used.

The temporary spare tire is easier to handle because of its construction which is lighter and smaller than a conventional tire. This tire should be used only for an emergency and only for a short distance.

Use the temporary spare tire only until the conventional tire is repaired, which should be as soon as possible.
Refer to Tires on page 9-9.

CAUTION

- *Do not use your temporary spare tire rim with a snow tire or a conventional tire. Neither will properly fit and could damage both tire and rim.*
- *The temporary spare tire has a tread life of less than 5,000 km (3,000 miles). The tread life may be shorter depending on driving conditions.*
- *The temporary spare tire is for limited use, however, if the tread wear solid-band indicator appears, replace the tire with the same type of temporary spare (page 6-45).*

NOTE

Tires degrade over time, even when they are not being used on the road. It is recommended that tires generally be replaced when they are 6 years or older. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. You should replace the spare tire when you replace the other road tires due to the aging of the spare tire. The period in which the tire was manufactured (both week and year) is indicated by a 4-digit number.
Refer to Tire Labeling on page 8-24.

▼Replacing a Wheel

WARNING

Always use wheels of the correct size on your vehicle:

Using a wrong-sized wheel is dangerous. Braking and handling could be affected, leading to loss of control and an accident.

CAUTION

A wrong-sized wheel may adversely affect:

- *Tire fit*
- *Wheel and bearing life*
- *Ground clearance*
- *Snow-chain clearance*
- *Speedometer calibration*
- *Headlight aim*
- *Bumper height*
- *Tire Pressure Monitoring System**

NOTE

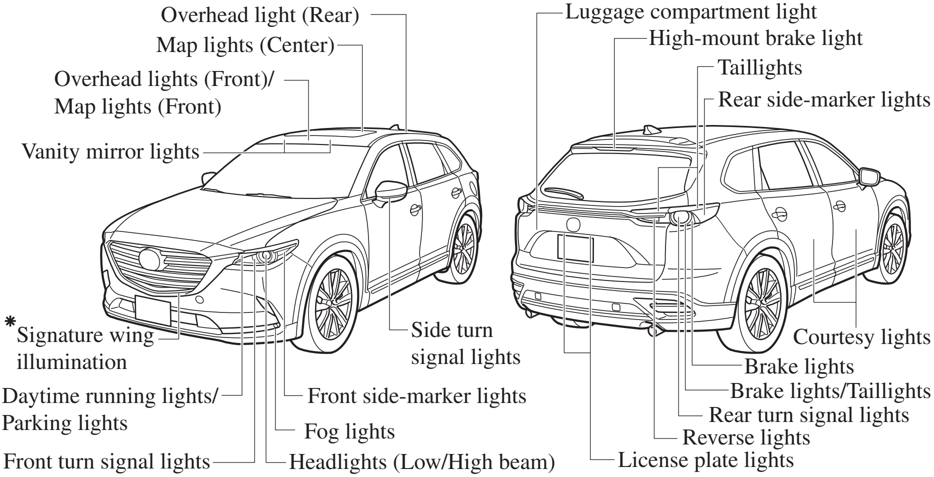
- *When replacing a wheel, make sure the new one is the same as the original factory wheel in diameter, rim width, and offset (inset/outset).*
- *For details, contact an Authorized Mazda Dealer.*

Proper tire balancing provides the best riding comfort and helps reduce tread wear. Out-of-balance tires can cause vibration and uneven wear, such as cupping and flat spots.

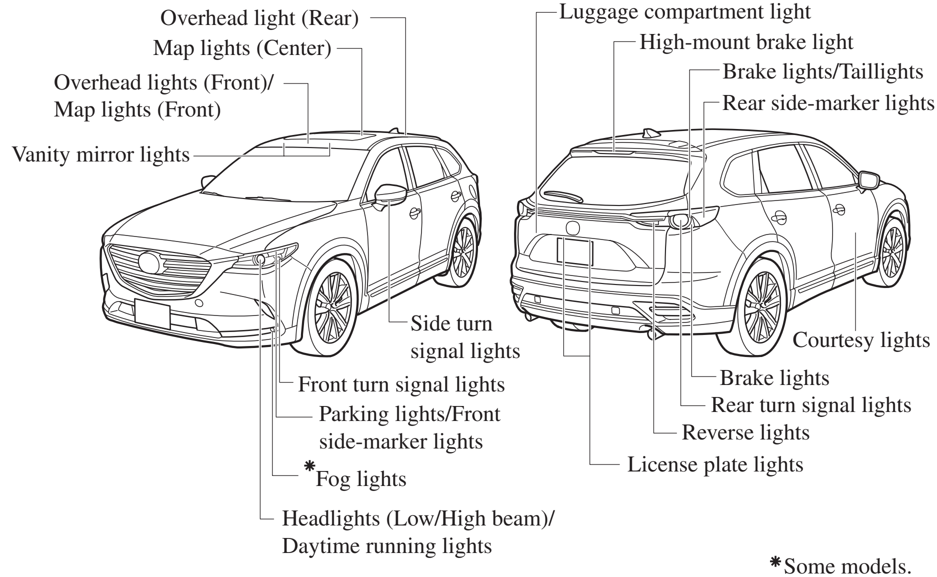
*Some models.

Light Bulbs

Type A (With Adaptive Front Lighting System (AFS))


Overhead light (Rear)
Map lights (Center)
Overhead lights (Front)/ Map lights (Front)
Vanity mirror lights
*Signature wing illumination
Daytime running lights/ Parking lights
Front turn signal lights
Side turn signal lights
Front side-marker lights
Fog lights
Headlights (Low/High beam)
Luggage compartment light
High-mount brake light
Taillights
Rear side-marker lights
Courtesy lights
Brake lights
Brake lights/Taillights
Rear turn signal lights
Reverse lights
License plate lights

Type B (Without Adaptive Front Lighting System (AFS))


Overhead light (Rear)
Map lights (Center)
Overhead lights (Front)/ Map lights (Front)
Vanity mirror lights
Side turn signal lights
Front turn signal lights
Parking lights/Front side-marker lights
*Fog lights
Headlights (Low/High beam)/ Daytime running lights
Luggage compartment light
High-mount brake light
Brake lights/Taillights
Rear side-marker lights
Courtesy lights
Brake lights
Rear turn signal lights
Reverse lights
License plate lights

*Some models.

CAUTION

When removing the lens or lamp unit using a flathead screwdriver, make sure that the flathead screwdriver does not contact the interior terminal. If the flathead screwdriver contacts the terminal, a short circuit may occur.

NOTE

- *To replace the bulb, contact an Authorized Mazda Dealer.*
- *Use the protective cover and carton for the replacement bulb to dispose of the old bulb promptly and out of the reach of children.*

▼Replacing Exterior Light Bulbs

Headlights (type A), Headlights/Daytime running lights (type B), Front turn signal lights (type A), Daytime running lights/Parking lights (type A), Front side-marker lights (type A), Signature wing illumination (type A)*, Fog lights*, Brake lights, Taillights, High-mount brake light, Side turn signal lights, Rear side-marker lights

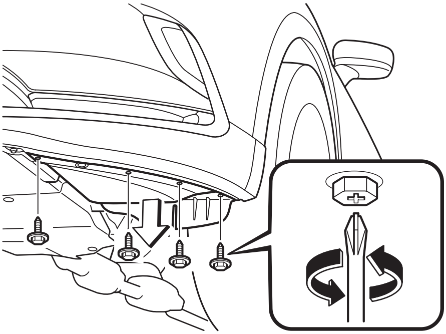
The LED bulb cannot be replaced as a single unit because it is an integrated unit. The LED bulb has to be replaced with the unit. We recommend an Authorized Mazda Dealer when the replacement is necessary.

Front turn signal lights (type B), Parking lights/Front side-marker lights (type B)

NOTE

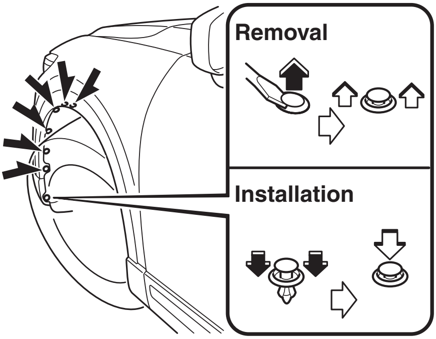
When replacing a bulb for the front turn signal lights and parking lights/front side-marker lights, turn the steering wheel and change the direction in which the tires are pointed to the position where the bulb replacement can be done easily.
Turn the steering wheel after starting the engine and stop the engine after you finish turning the steering wheel.

1. If you are changing the right bulb, start the engine, turn the steering wheel all the way to the right, and turn off engine. If you are changing the left bulb, turn the steering wheel to the left, and turn off engine.
2. Make sure the ignition is switched off, and the headlight switch is off.
3. Turn the screw counterclockwise and remove it.

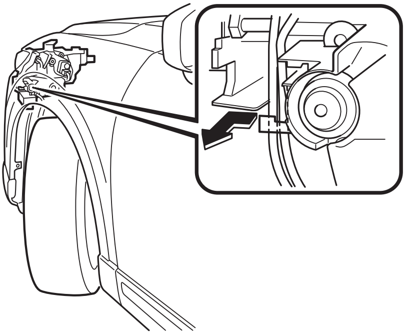


*Some models.

4. Pull the center of each plastic retainer and remove the retainers, and then partially peel back the mudguard.



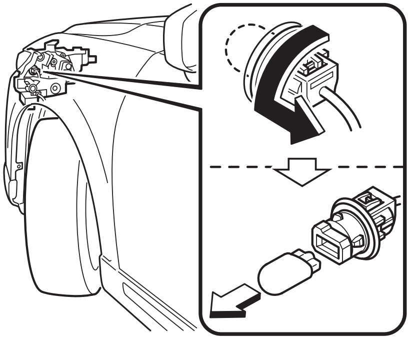
5. Disconnect the wiring harness by releasing the clamp.



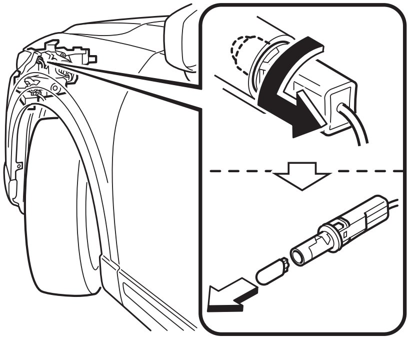
6. Turn the socket and bulb assembly counterclockwise and remove it.

7. Disconnect the bulb from the socket.

Front turn signal lights



Parking lights/Front side-marker lights



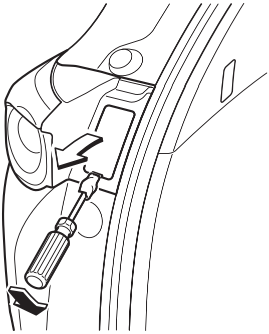
8. Install the new bulb in the reverse order of the removal procedure.

NOTE

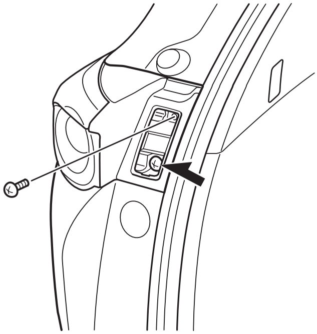
There will be no problem with functionality with the wiring harness disconnected in Step 5 left disconnected. Therefore, there is no need to connect the wiring harness.

Rear turn signal lights

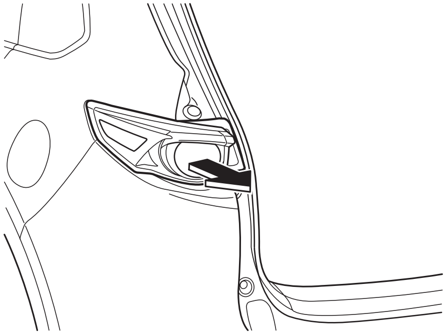
1. Make sure the ignition is switched off, and the headlight switch is off.
2. Remove the cover.



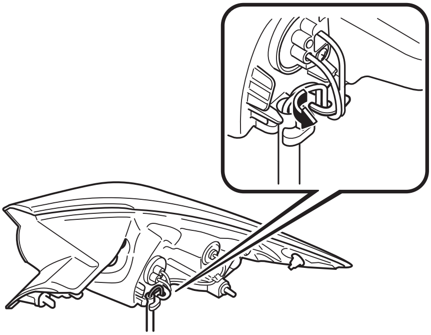
3. Turn the screws counterclockwise and remove them.



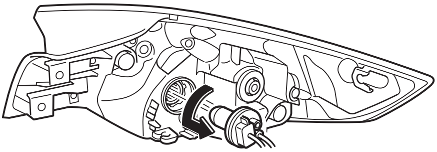
4. Pull the unit rearward to remove it.



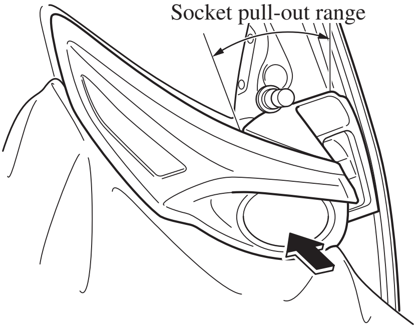
5. Disconnect the wiring harness by releasing the clamp.



6. Turn the socket and bulb assembly counterclockwise and remove it.



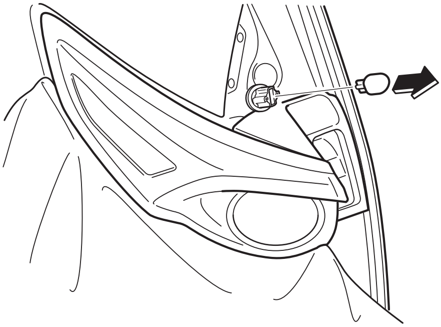
7. Temporarily install the light unit with the socket pulled out of the top of the light unit.



CAUTION

- *The wiring harness may be damaged when temporarily installing the light unit. When performing the procedure, observe the following points.*
  - *Pull out the socket from within the socket pull-out range shown in the figure.*
  - *Do not push the light unit into the vehicle with force.*
- *When temporarily installing the light unit, cover the rear bumper light unit installation surface with a soft cloth. The rear bumper may be scratched or damaged if the light unit contacts it.*

8. Disconnect the bulb from the socket.

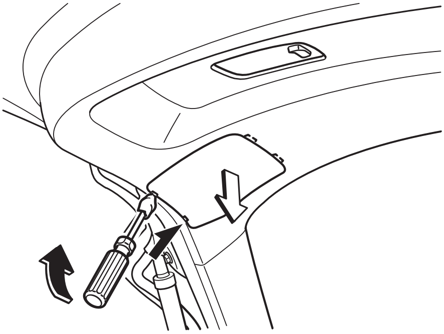


9. Install the new bulb in the reverse order of the removal procedure.

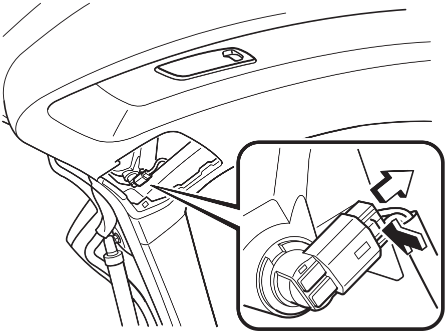
DEP DEALER ePROCESS

Reverse lights

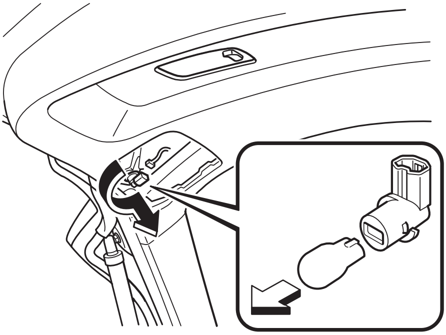
1. Make sure the ignition is switched off, and the headlight switch is off.
2. Remove the cover.



3. Disconnect the electrical connector from the bulb by pressing the tab on the connector with your finger and pulling the connector.



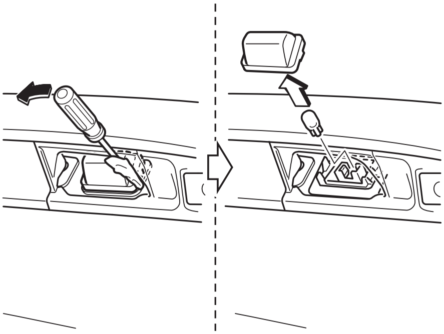
4. Turn the socket and bulb assembly counterclockwise and remove it.
5. Disconnect the bulb from the socket.



6. Install the new bulb in the reverse order of the removal procedure.

License plate lights

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Wrap a flathead screwdriver with a soft cloth to prevent damage to the lens, and then remove the lens by carefully prying on the edge of the lens with a flathead screwdriver.
3. Disconnect the bulb by pulling it out.



4. Install the new bulb in the reverse order of the removal procedure.

▼Replacing Interior Light Bulbs

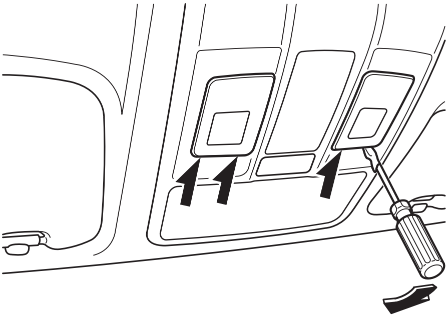
Overhead lights (Front)/Map lights (Front) (LED type), Map lights (Center) (LED type), Overhead lights (Rear) (LED type), Ambient lights

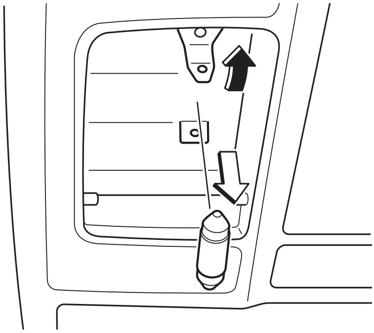
The LED bulb cannot be replaced as a single unit because it is an integrated unit. The LED bulb has to be replaced with the unit. We recommend an Authorized Mazda Dealer when the replacement is necessary.

Overhead lights (Front)/Map lights (Front) (bulb type), Map lights (Center) (bulb type), Overhead light (Rear) (bulb type), Vanity mirror lights*

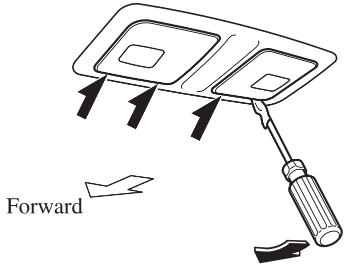
1. Wrap a small flathead screwdriver with a soft cloth to prevent damage to the lens, and then remove the lens by carefully prying on the edge of the lens with the flathead screwdriver.
2. Disconnect the bulb by pulling it out.

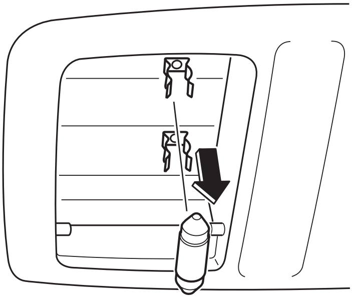
   Overhead lights (Front)/Map lights (Front)



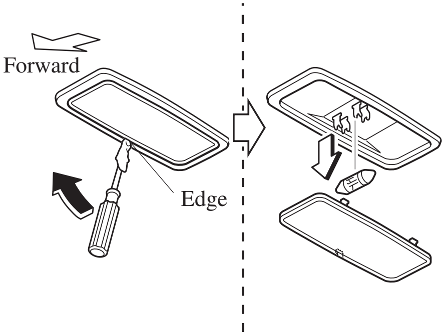


Map lights (Center)

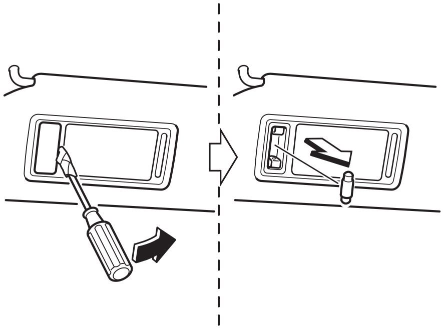




Overhead light (Rear)


Forward
Edge

Vanity mirror lights*



3. Install the new bulb in the reverse order of the removal procedure.

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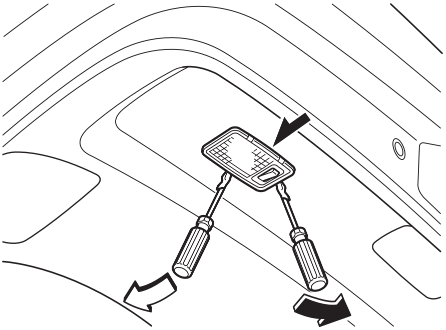
*Some models.

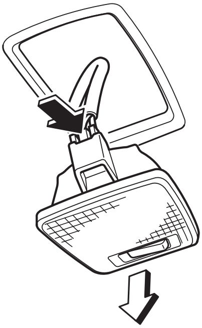
Luggage compartment light

(LED type)
The LED bulb cannot be replaced as a single unit because it is an integrated unit. The LED bulb has to be replaced with the unit. We recommend an Authorized Mazda Dealer when the replacement is necessary.
(Bulb type)

1. Wrap a small flathead screwdriver with a soft cloth to prevent damage to the lens and remove the lens unit by carefully prying on the edge of the lens unit with the flathead screwdriver.



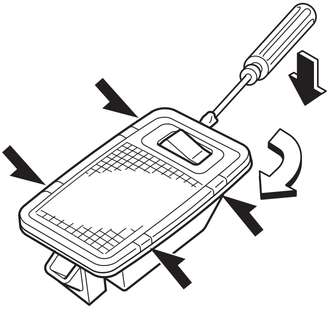
2. Disconnect the electrical connector from the bulb by pressing the tab on the connector with your finger and pulling the connector.



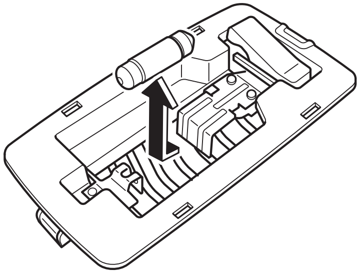
CAUTION

When replacing the bulb always disconnect the connector first. Otherwise, electric and electronic devices could be shorted.

3. Insert the flathead screwdriver into the gap between the lens and the lens unit, and then slide the screwdriver to detach the lens.



4. Disconnect the bulb by pulling it out.



5. Install the new bulb in the reverse order of the removal procedure.

Fuses

Your vehicle's electrical system is protected by fuses.

If any lights, accessories, or controls do not work, inspect the appropriate circuit protector. If a fuse has blown, the inside element will be melted.

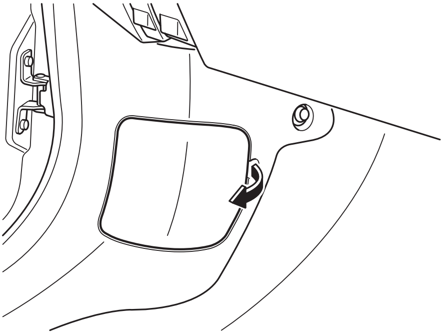
If the same fuse blows again, avoid using that system and consult an Authorized Mazda Dealer as soon as possible.

▼Fuse Replacement

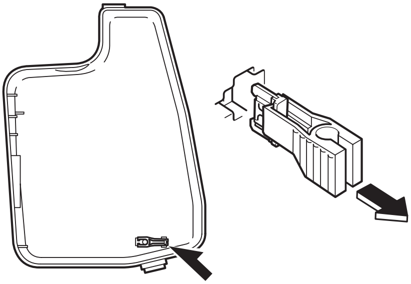
Replacing the fuses on the vehicle's left side

If the electrical system does not work, first inspect the fuses on the vehicle's left side.

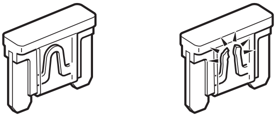
1. Make sure the ignition is switched off, and other switches are off.
2. Open the fuse panel cover.



3. Pull the fuse straight out with the fuse puller provided on the fuse block located in the engine compartment.



4. Inspect the fuse and replace it if it is blown.



Normal Blown

5. Insert a new fuse of the same amperage rating, and make sure it fits tightly. If it does not fit tightly, have an expert install it. We recommend an Authorized Mazda Dealer.
If you have no spare fuses, borrow one of the same rating from a circuit not essential to vehicle operation, such as the AUDIO or OUTLET circuit.

⚠ CAUTION

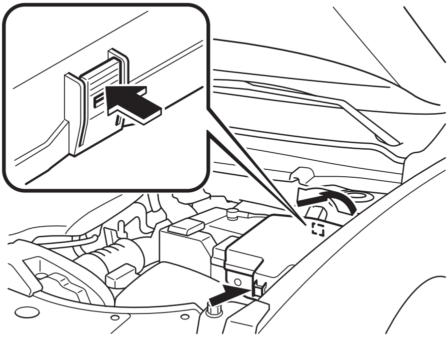
Always replace a fuse with a genuine Mazda fuse or equivalent of the same rating. Otherwise you may damage the electric system.

6. Reinstall the cover and make sure that it is securely installed.

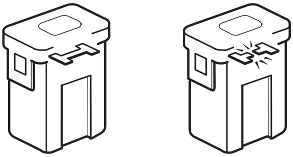
Replacing the fuses under the hood

If the headlights or other electrical components do not work and the fuses in the cabin are normal, inspect the fuse block under the hood. If a fuse is blown, it must be replaced. Follow these steps:

1. Make sure the ignition is switched off, and other switches are off.
2. Remove the fuse block cover.



3. If any fuse but the MAIN fuse is blown, replace it with a new one **of the same amperage rating**.


Normal   Blown

WARNING

Do not replace the main fuse and multiplex slow blow fuse by yourself. Have an Authorized Mazda Dealer perform the replacement:

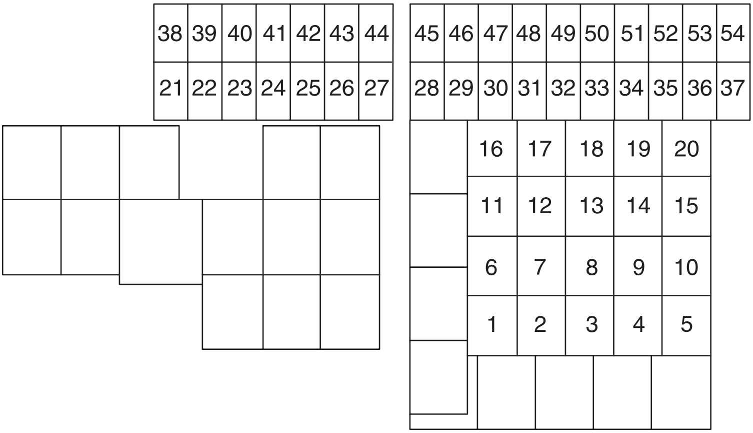
Replacing these fuses by yourself is dangerous because they are high current fuses. Incorrect replacement could cause an electrical shock or a short circuit resulting in a fire.

4. Reinstall the cover and make sure that it is securely installed.

DEP DEALER ePROCESS

▼Fuse Panel Description

Fuse block (Engine compartment)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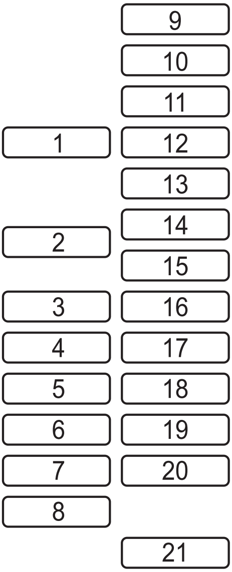
DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	WIPER.DEI	20 A	—
2	IG2	30 A	For protection of various circuits
3	INJECTOR	30 A	Engine control system
4	—	—	—
5	P.WINDOW1	30 A	Power windows*
6	—	—	—
7	—	—	—
8	EVVT	20 A	Engine control system
9	DEFOG	40 A	Rear window defogger
10	—	—	—
11	R.HEATER	40 A	Air conditioner
12	EPB L	20 A	Electric parking brake (LH)
13	AUDIO	40 A	Audio system
14	EPB R	20 A	Electric parking brake (RH)
15	ENG.MAIN	40 A	Engine control system
16	ABS/DSC M	50 A	ABS, Dynamic stability control system
17	CABIN.+B	50 A	For protection of various circuits
18	WIPER	20 A	Front window wiper and washer
19	HEATER	40 A	Air conditioner

*Some models.

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
20	—	—	—
21	ENGINE.IG1	7.5 A	Engine control system
22	C/U IG1	15 A	For protection of various circuits
23	H/L LOW L	15 A	Headlight low beam (LH)
24	H/L LOW R1	15 A	—
25	ENGINE3	15 A	Engine control system
26	ENGINE2	15 A	Engine control system
27	ENGINE1	15 A	Engine control system
28	AT	15 A	Transaxle control system
29	H/CLEAN	20 A	—
30	A/C	7.5 A	Air conditioner
31	AT PUMP	15 A	—
32	STOP	10 A	Brake lights
33	R.WIPER	15 A	Rear window wiper
34	H/L HI	20 A	Headlight high beam
35	H/L LOW R2	15 A	Headlight low beam (RH)
36	FOG	15 A	Fog lights*
37	ENG.+B	7.5 A	Engine control system
38	AUDIO2	7.5 A	Audio system
39	INTERIOR	10 A	Overhead light
40	METER2	15 A	—
41	METER1	10 A	Instrument cluster
42	SRS1	7.5 A	Air bag
43	AUDIO4	10 A	Audio system*
44	AUDIO1	25 A	Audio system
45	ABS/DSC S	30 A	ABS, Dynamic stability control system
46	—	—	—
47	ST.HEATER	15 A	Heated steering wheel*
48	TAIL	15 A	Parking lights
49	FUEL PUMP2	25 A	Fuel system
50	HAZARD	25 A	Hazard warning flashers, Turn signal lights, Taillights
51	DRL	15 A	Daytime running lights
52	R.OUTLET2	15 A	Accessory sockets
53	HORN	15 A	Horn
54	ROOM	25 A	For protection of various circuits

*Some models.

Fuse block (Left side)



DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	P.SEAT D	30 A	Power seat*
2	P.WINDOW3	30 A	Power windows*
3	R.OUTLET3	15 A	Accessory sockets
4	P.WINDOW2	25 A	Power windows
5	PLG	20 A	Power liftgate
6	D.LOCK	25 A	Power door locks
7	SEAT WARM	20 A	Seat warmer
8	SRS2/ESCL	15 A	—
9	SUNROOF	10 A	Moonroof
10	INTERIOR2	15 A	Audio system
11	ENG+BB	7.5 A	Engine control system
12	MIRROR	7.5 A	Power control mirror
13	AT IND	7.5 A	AT shift indicator
14	F.OUTLET	15 A	Accessory sockets
15	R.OUTLET1	15 A	—
16	—	—	—
17	M.DEF	7.5 A	Mirror defogger

*Some models.

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
18	—	—	—
19	AUDIO3	15 A	Audio system
20	—	—	—
21	P.SEAT P	30 A	Power seat*

*Some models.

Exterior Care

The paintwork on your Mazda represents the latest technical developments in composition and methods of application.

Environmental hazards, however, can harm the paint's protective properties, if proper care is not taken.

Here are some examples of possible damage, with tips on how to prevent them.

Etching Caused by Acid Rain or Industrial Fallout

Occurrence

Industrial pollutants and vehicle emissions drift into the air and mix with rain or dew to form acids. These acids can settle on a vehicle's finish. As the water evaporates, the acid becomes concentrated and can damage the finish.
And the longer the acid remains on the surface, the greater the chance is for damage.

Prevention

It is necessary to wash and wax your vehicle to preserve its finish according to the instructions in this section. These steps should be taken immediately after you suspect that acid rain has settled on your vehicle's finish.

Damage Caused by Bird Dropping, Insects, or Tree Sap

Occurrence

Bird droppings contain acids. If these are not removed they can eat away the clear and color base coat of the vehicle's paintwork.

When insects stick to the paint surface and decompose, corrosive compounds form. These can erode the clear and color base coat of the vehicle's paintwork if they are not removed.

Tree sap will harden and adhere permanently to the paint finish. If you scratch the sap off while it is hard, some vehicle paint could come off with it.

Prevention

It is necessary to have your Mazda washed and waxed to preserve its finish according to the instructions in this section. This should be done as soon as possible.

Bird droppings can be removed with a soft sponge and water. If you are traveling and these are not available, a moistened tissue may also take care of the problem. The cleaned area should be waxed according to the instructions in this section.
Insects and tree sap are best removed with a soft sponge and water or a commercially available chemical cleaner.

Another method is to cover the affected area with dampened newspaper for one to two hours. After removing the newspaper, rinse off the loosened debris with water.

Water Marks

Occurrence

Rain, fog, dew, and even tap water can contain harmful minerals such as salt and lime. If moisture containing these minerals settles on the vehicle and evaporates, the minerals will concentrate and harden to form white rings. The rings can damage your vehicle's finish.

Prevention

It is necessary to wash and wax your vehicle to preserve its finish according to the instructions in this section. These steps should be taken immediately after you find water marks on your vehicle's finish.

Paint Chipping

Occurrence

Paint chipping occurs when gravel thrown in the air by another vehicle's tires hits your vehicle.

How to avoid paint chipping

Keeping a safe distance between you and the vehicle ahead reduces the chances of having your paint chipped by flying gravel.

NOTE

- *The paint chipping zone varies with the speed of the vehicle. For example, when traveling at 90 km/h (56 mph), the paint chipping zone is 50 m (164 ft).*
- *In low temperatures a vehicle's finish hardens. This increases the chance of paint chipping.*
- *Chipped paint can lead to rust forming on your Mazda. Before this happens, repair the damage by using Mazda touch-up paint according to the instructions in this section. Failure to repair the affected area could lead to serious rusting and expensive repairs.*

Follow **all** label and container directions when using a chemical cleaner or polish. Read all warnings and cautions.

Appearance Care

▼Maintaining the Finish

Washing

CAUTION

- *When the wiper lever is in the* **AUTO** *position and the ignition is switched ON, the wipers may move automatically in the following cases:*
  - *If the windshield above the rain sensor is touched or wiped with a cloth.*
  - *If the windshield is struck with a hand or other object from either outside or inside the vehicle.*

  Keep hands and scrapers clear of the windshield when the wiper lever is in the **AUTO** *position and the ignition is switched ON as fingers could be pinched or the wipers and wiper blades damaged when the wipers activate automatically. If you are going to clean the windshield, be sure the wipers are turned off completely (when it is most likely that the engine is left running) this is particularly important when clearing ice and snow.*
- *Do not spray water in the engine compartment. Otherwise, it could result in engine-starting problems or damage to electrical parts.*
- *When washing and waxing the vehicle, be careful not to apply excessive force to any single area of the vehicle roof. Otherwise, you could dent the vehicle.*

To help protect the finish from rust and deterioration, wash your Mazda thoroughly and frequently, at least once a month, with lukewarm or cold water.

If the vehicle is washed improperly, the paint surface could be scratched. Here are some examples of how scratching could occur.

Scratches occur on the paint surface when:

- The vehicle is washed without first rinsing off dirt and other foreign matter.
- The vehicle is washed with a rough, dry, or dirty cloth.
- The vehicle is washed at a car wash that uses brushes that are dirty or too stiff.
- Cleansers or wax containing abrasives are used.

NOTE

- *Mazda is not responsible for scratches caused by automatic car washes or improper washing.*
- *Scratches are more noticeable on vehicles with darker paint finishes.*

To minimize scratches on the vehicle's paint finish:

- Rinse off any dirt or other foreign matter using lukewarm or cold water before washing.
- Use plenty of lukewarm or cold water and a soft cloth when washing the vehicle. Do not use a nylon cloth.
- Rub gently when washing or drying the vehicle.
- Take your vehicle only to a car wash that keeps its brushes well maintained.
- Do not use abrasive cleansers or wax that contain abrasives.

CAUTION

Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may damage the protective coating; also, cleaners and detergents may discolor or deteriorate the paint.

Pay special attention to removing salt, dirt, mud, and other foreign material from the underside of the fenders, and make sure the drain holes in the lower edges of the doors and rocker panels are clean.

Insects, tar, tree sap, bird droppings, industrial fallout, and similar deposits can damage the finish if not removed immediately. When prompt washing with plain water is ineffective, use a mild soap made for use on vehicles.

Thoroughly rinse off all soap with lukewarm or cold water. Do not allow soap to dry on the finish.

After washing the vehicle, dry it with a clean chamois to prevent water spots from forming.

WARNING

Dry off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal:

Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected.

When using an automatic car wash

- Retract the door mirrors.
- The automatic car wash brushes could reduce the paint lustre or hasten paint deterioration.

When using a high water pressure car wash

High water temperature and high water pressure car washers are available depending on the type of car wash machine. If the car washer nozzle is put too close to the vehicle, the force of the spray could damage or deform the molding, affect the sealability of parts, and allow water to penetrate the interior. Keep a sufficient space (30 cm (12 in) or more) between the nozzle and the vehicle. In addition, do not spend too much time spraying the same area of the vehicle, and be very careful when spraying between gaps in doors and around windows.

Waxing

Your vehicle needs to be waxed when water no longer beads on the finish. Always wash and dry the vehicle before waxing it. In addition to the vehicle body, wax the metal trim to maintain its luster.

1. Use wax which contains no abrasives. Waxes containing abrasive will remove paint and could damage bright metal parts.
2. Use a good grade of natural wax for metallic, mica, and solid colors.
3. When waxing, coat evenly with the sponge supplied or a soft cloth.
4. Wipe off the wax with a soft cloth.

NOTE

A spot remover to remove oil, tar, and similar materials will usually also take off the wax. Rewax these areas even if the rest of the vehicle does not need it.

▼Repairing Damage to the Finish

Deep scratches or chips on the finish should be repaired promptly. Exposed metal quickly rusts and can lead to major repairs.

⚠ CAUTION

If your Mazda is damaged and needs metal parts repaired or replaced, make sure the body shop applies anti-corrosion materials to all parts, both repaired and new. This will prevent them from rusting.

▼Bright-Metal Maintenance

- Use tar remover to remove road tar and insects. Never do this with a knife or similar tool.
- To prevent corrosion on bright-metal surfaces, apply wax or chrome preservative and rub it to a high luster.
- During cold weather or in coastal areas, cover bright-metal parts with a coating of wax or preservative heavier than usual. It would also help to coat them with noncorrosive petroleum jelly or some other protective compound.

⚠ CAUTION

Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

▼Underbody Maintenance

Road chemicals and salt used for ice and snow removal and solvents used for dust control may collect on the underbody. If not removed, they will speed up rusting and deterioration of such underbody parts as fuel lines, frame, floor pan, and exhaust system, even though these parts may be coated with anti-corrosive material.

Thoroughly flush the underbody and wheel housings with lukewarm or cold water at the end of each winter. Try also to do this every month.

Pay special attention to these areas because they easily hide mud and dirt. **It will do more harm than good to wet down the road grime without removing it.**

The lower edges of doors, rocker panels, and frame members have drain holes that should not be clogged. Water trapped there will cause rusting.

⚠ WARNING

Dry off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal:

> *Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected.*

▼Aluminum Wheel Maintenance

A protective coating is provided over the aluminum wheels. Special care is needed to protect this coating.

⚠ CAUTION

> *Do not use any detergent other than mild detergent. Before using any detergent, verify the ingredients. Otherwise, the product could discolor or stain the aluminum wheels.*

NOTE

- *Do not use a wire brush or any abrasive cleaner, polishing compound, or solvent on aluminum wheels. They may damage the coating.*
- *Always use a sponge or soft cloth to clean the wheels.*
  Rinse the wheels thoroughly with lukewarm or cold water. Also, be sure to clean the wheels after driving on dusty or salted roads to help prevent corrosion.
- *Avoid washing your vehicle in an automatic car wash that uses high-speed or hard brushes.*

▼Plastic Part Maintenance

- When cleaning the plastic lenses of the lights, do not use gasoline, kerosene, rectified spirit, paint, thinner, highly acidic detergents, or strongly alkaline detergents. Otherwise, these chemical agents can discolor or damage the surfaces resulting in a significant loss in functionality. If plastic parts become inadvertently exposed to any of these chemical agents, flush with water immediately.
- If plastic parts such as the bumpers become inadvertently exposed to chemical agents or fluids such as gasoline, oil, engine coolant, or battery fluid, it could cause discoloration, staining, or paint peeling. Wipe off any such chemical agents or fluids using a soft cloth immediately.
- High water temperature and high water pressure car washers are available depending on the type of high pressure car washer device. If the car washer nozzle is put too close to the vehicle or aimed at one area for an extended period of time, it could deform plastic parts or damage the paint.
- Do not use wax containing compounds (polish). Otherwise, it could result in paint damage.
- In addition, do not use an electrical or air tool to apply wax. Otherwise, the frictional heat generated could result in deformation of plastic parts or paint damage.

Interior Care

⚠ WARNING

Do not spray water into the vehicle cabin:

> *Spraying water into the vehicle cabin is dangerous as electrical devices such as the audio and switches could get wet resulting in a malfunction or vehicle fire.*

NOTE

- *Do not wipe the interior using alcohol, chlorine bleach, or organic solvents such as thinner, benzene, and gasoline. Otherwise, it may cause discoloration or stains.*
- *Rubbing hard with a stiff brush or cloth may cause damage.*

If the vehicle interior becomes soiled by any of the following, wipe it off immediately using a soft cloth.
Leaving it uncleaned could cause discoloration, stains, cracks, or peeling of the coating, and it will make it hard to wipe off later.

- Beverage or fragrance
- Grease or oil
- Soiling

▼Seat Belt Maintenance

1. Clean the soiled area by lightly dabbing it with a soft cloth soaked in a mild detergent (approx. 5%) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.
3. Before retracting seat belts which have been pulled out for cleaning, dry them off thoroughly and make sure there is no remaining moisture on them.

⚠ WARNING

If a seat belt appears frayed or has abrasions, have it replaced by an Authorized Mazda Dealer:

> *If a seat belts is used under such a condition, it cannot function at its full capacity which could result in serious injury or death.*

Use a mild detergent to remove soiling from a seat belt:

> *If organic solvents are used for cleaning the seat belts or they become stained or bleached, there is the possibility of them becoming weakened and as a result, they may not function at their full capacity which could cause serious injury or death.*

NOTE

Clean seat belts diligently if they get dirty. Leaving them uncleaned will make it difficult to clean them later, and it may affect the smooth retracting of the seat belt.

▼Vinyl Upholstery Maintenance

Remove dust and dirt from the vinyl upholstery using a brush or vacuum. Remove soiling from vinyl upholstery using a leather and vinyl upholstery cleaner.

▼Upholstery Maintenance

1. Clean the soiled area by lightly dabbing it with a soft cloth soaked in a mild detergent (approx. 5%) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

▼Leather Upholstery Maintenance*

1. Remove dust and sand using a vacuum cleaner.
2. Wipe off the soiled area with a soft cloth and a suitable, special cleaner or a soft cloth soaked in a mild detergent (about 5%) diluted with water.
3. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.
4. Remove moisture with a dry, soft cloth and allow the leather to further dry in a well-ventilated, shaded area. If the leather gets wet such as from rain, remove the moisture and dry it as soon as possible.

---

*Some models.

Appearance Care

NOTE

- *Because genuine leather is a natural material, its surface is not uniform and it may have natural scars, scratches, and wrinkles.*
- *To maintain the quality for as long as possible, periodical maintenance, about twice a year, is recommended.*
- *If the leather upholstery comes into contact with any of the following, clean it immediately. Leaving it uncleaned could cause premature wear, mold, or stains.*
    - *Sand or dirt*
    - *Grease or oil, such as hand cream*
    - *Alcohol, such as in cosmetic or hair dressing items*
- *If the leather upholstery gets wet, promptly remove moisture with a dry cloth. Remaining moisture on the surface may cause deterioration such as hardening and shrinkage.*
- *Exposure to direct sunlight for long periods may cause deterioration and shrinkage. When parking the car under direct sunlight for long periods, shade the interior using sunshades.*
- *Do not leave vinyl products on the leather upholstery for long periods. They may affect the leather quality and coloring. If the cabin temperature becomes hot, the vinyl may deteriorate and adhere to the genuine leather.*

▼Plastic Part Maintenance

⚠ CAUTION

Do not use polishing agents. Depending on the product ingredients, they could cause discoloration, stains, cracks or peeling of the coating.

▼Instrument Panel Top Maintenance

1. Wipe the soiled area with a soft cloth soaked in a mild detergent (approx. 5%) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

▼Panel Maintenance

If a panel becomes soiled, wipe it off with a soft cloth soaked in clean water and thoroughly wrung out.
If some areas require further cleaning, use the following procedure:

1. Wipe the soiled area with a soft cloth soaked in a mild detergent (approx. 5 %) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

NOTE

Be particularly careful when cleaning shiny surface panels and metallic parts such as plating as they can be scratched easily.

▼ Active Driving Display Maintenance*

The dust-proof sheet has a coating. When cleaning, do not use a hard or rough-surface cloth, or cleaning detergent. In addition, if a chemical solvent gets on the active driving display, wipe it off immediately. The dust-proof sheet could be damaged and the surface coating could be scratched. Use a fine, soft cloth such as those used for cleaning eyeglasses.

NOTE

Use of compressed air when cleaning the dust-proof sheet is recommended.

▼ Cleaning the Window Interiors

If the windows become covered with an oily, greasy, or waxy film, clean them with glass cleaner. Follow the directions on the container.

⚠ CAUTION

- *Do not scrape or scratch the inside of the window glass. It could damage the thermal filaments and the antenna lines.*
- *When washing the inside of the window glass, use a soft cloth dampened in lukewarm water, gently wiping the thermal filaments and the antenna lines. Use of glass cleaning products could damage the thermal filaments and the antenna lines.*

▼ Cleaning the Floor Mats

Rubber floor mats should be cleaned with mild soap and water only.

⚠ WARNING

Do not use rubber cleaners, such as tire cleaner or tire shine, when cleaning rubber floor mats:

> *Cleaning the rubber floor mats with rubber cleaning products makes the floor mats slippery.*
> *This may cause an accident when depressing the accelerator or brake pedal or when getting in or out of the vehicle.*

After removing the floor mats for cleaning, always reinstall them securely (page 3-52).

---

*Some models.

MEMO

7

If Trouble Arises

Helpful information on what to do if a problem arises with the vehicle.

Parking in an Emergency 7-2
Parking in an Emergency 7-2

Flat Tire 7-3
Spare Tire and Tool Storage 7-3
Changing a Flat Tire 7-9

Battery Runs Out 7-20
Jump-Starting 7-20

Emergency Starting 7-23
Starting a Flooded Engine 7-23
Push-Starting 7-23

Overheating 7-24
Overheating 7-24

Emergency Towing 7-26
Towing Description 7-26
Towing Hooks (Mexico) 7-27

Warning/Indicator Lights and Warning Sounds 7-30
If a Warning Light Turns On or Flashes 7-30
Message Indicated on Display 7-42
Message Indicated in Multi-information Display* 7-44
Warning Sound is Activated 7-45

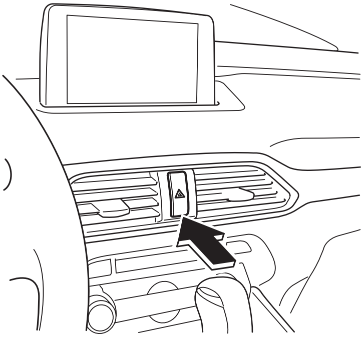
When Liftgate Cannot be Opened 7-50
When Liftgate Cannot be Opened 7-50

Active Driving Display Does Not Operate* 7-51
If the Active Driving Display does not operate 7-51

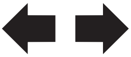
*Some models.

Parking in an Emergency

The hazard warning lights should always be used when you stop on or near a roadway in an emergency.



The hazard warning lights warn other drivers that your vehicle is a traffic hazard and that they must take extreme caution when near it.



Depress the hazard warning flasher and all the turn signals will flash. The hazard warning indicator lights in the instrument cluster flash simultaneously.

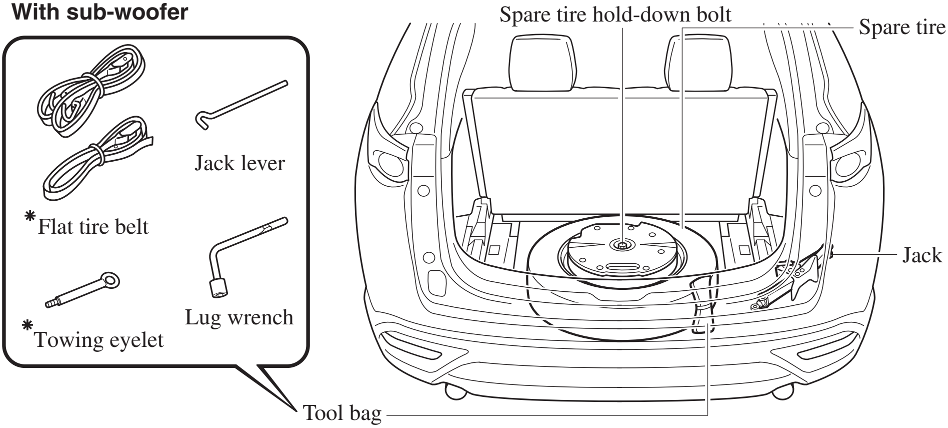
NOTE

- *The turn signals do not work when the hazard warning lights are on.*
- *Check local regulations about the use of hazard warning lights while the vehicle is being towed to verify that it is not in violation of the law.*

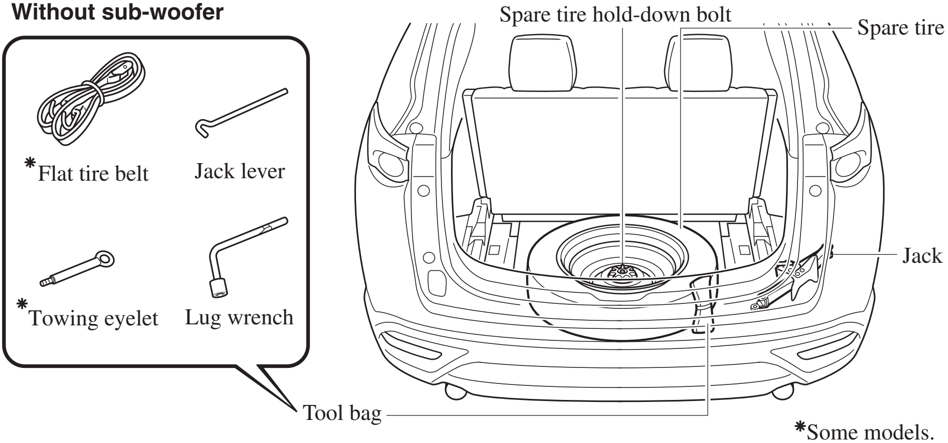
Spare Tire and Tool Storage

Spare tire and tools are stored in the locations illustrated in the diagram.

With sub-woofer


Spare tire hold-down bolt
Spare tire
Jack lever
*Flat tire belt
Lug wrench
*Towing eyelet
Jack
Tool bag

Without sub-woofer


Spare tire hold-down bolt
Spare tire
*Flat tire belt
Jack lever
*Towing eyelet
Lug wrench
Jack
Tool bag

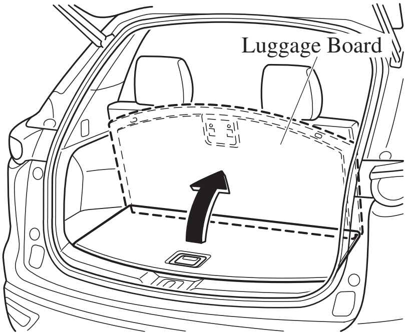
*Some models.

Flat Tire

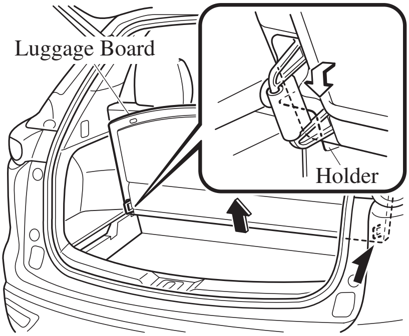
▼Jack

To remove the jack

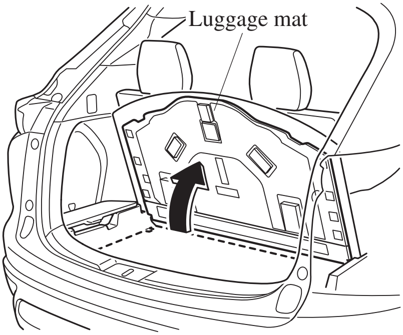
1. Set the third-row seatbacks to their on-road positions.
2. Raise the luggage board.


Luggage Board

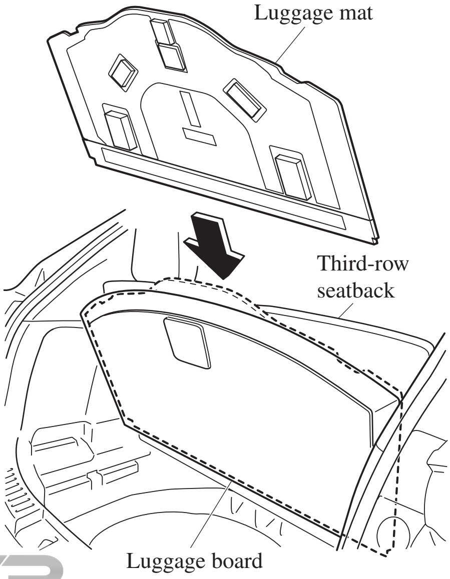
3. Raise the luggage board a little while pulling it towards you, and then insert the bottom edge into the holders.


Luggage Board
Holder

4. **(Vehicles with luggage mat)** Store the luggage mat between the third-row seatbacks and the luggage board.
   1. Raise the luggage mat.


Luggage mat

   2. Remove the luggage mat.
   3. Insert the luggage mat between the luggage board and the third-row seatbacks.

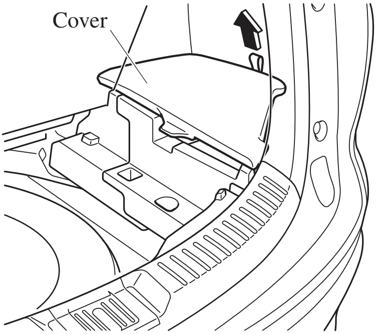

Luggage mat
Third-row seatback
Luggage board

DEP DEALER ePROCESS

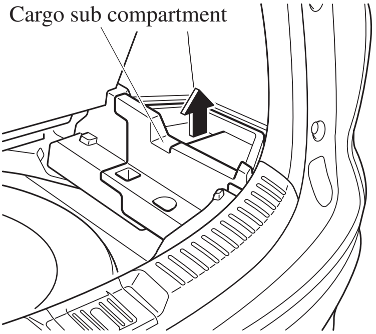
NOTE

When inserting the luggage mat, support the luggage board with one hand so that it does not come off the holders.

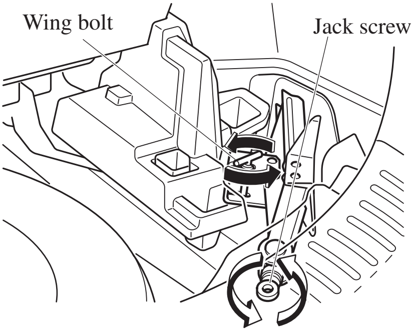
5. Remove the cover on the right side.



6. Remove the cargo sub compartment.

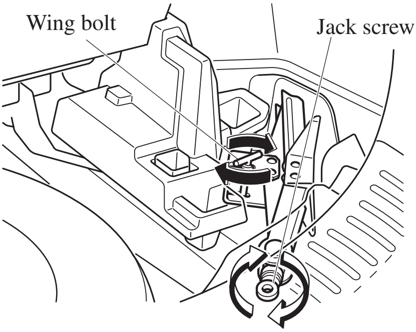

Cargo sub compartment

7. Turn the wing bolt and jack screw counterclockwise.


Wing bolt
Jack screw

To secure the jack

1. Insert the wing bolt into the jack with the jack screw pointing back and turn the wing bolt clockwise to temporarily tighten it.
2. Tighten the jack screw clockwise.


Wing bolt
Jack screw

3. Turn the wing bolt completely to secure the jack.

NOTE

If the jack is not completely secured, it could rattle while driving. Make sure the jack screw is sufficiently tightened.

Maintenance

- Always keep the jack clean.
- Make sure the moving parts are kept free from dirt or rust.
- Make sure the screw thread is adequately lubricated.

▼Spare Tire

Your Mazda has a temporary spare tire. The temporary spare tire is lighter and smaller than a conventional tire, and is designed only for emergency use and should be used only for VERY short periods. Temporary spare tires should NEVER be used for long drives or extended periods.

WARNING

Do not install the temporary spare tire on the front wheels (driving wheels):

Driving with the temporary spare tire on one of the front driving wheels is dangerous. Handling will be affected. You could lose control of the vehicle, especially on ice or snow bound roads, and have an accident. Move a regular tire to the front wheel and install the temporary spare tire to the rear.

CAUTION

- *When using the temporary spare tire, driving stability may decrease compared to when using only the conventional tire. Drive carefully.*
- *To avoid damage to the temporary spare tire or to the vehicle, observe the following precautions:*
  - *Do not exceed 80 km/h (50 mph).*
  - *Avoid driving over obstacles. Also, do not drive through an automatic car wash. This tire's diameter is smaller than a conventional tire, so the ground clearance is reduced.*
  - *Do not use a tire chain on this tire because it will not fit properly.*
  - *Do not use your temporary spare tire on any other vehicle, it has been designed only for your Mazda.*
  - *Use only one temporary spare tire on your vehicle at the same time.*

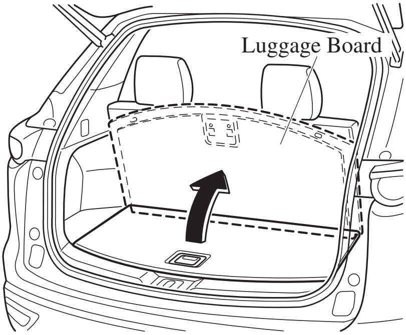
To remove the spare tire

NOTE

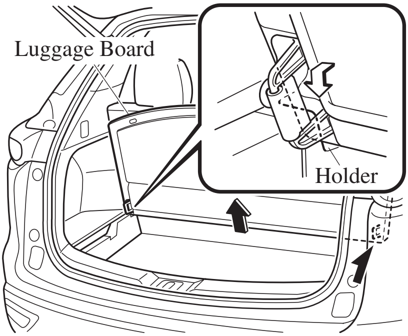
(Vehicles with sub-woofer)

Because the sub-woofer is not operational when the sub-woofer connector is disconnected, no sound is output from the sub-woofer.

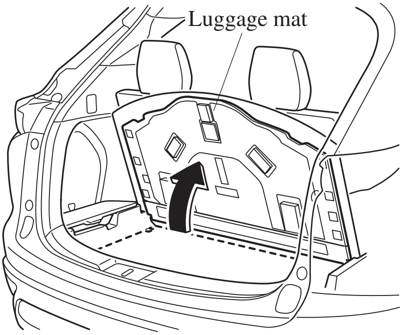
1. Set the third-row seatbacks to their on-road positions.
2. Raise the luggage board.


Luggage Board

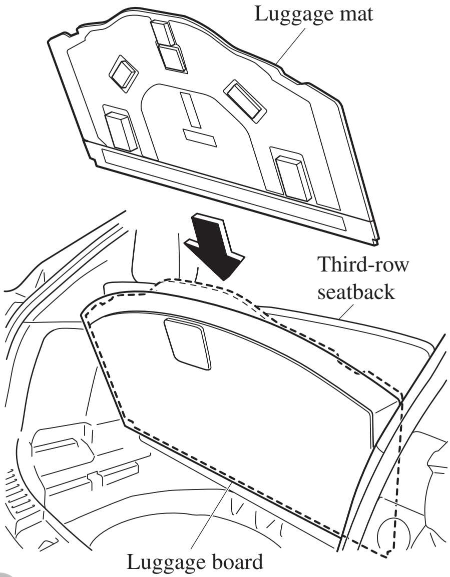
3. Raise the luggage board a little while pulling it towards you, and then insert the bottom edge into the holders.


Luggage Board
Holder

4. **(Vehicles with luggage mat)** Store the luggage mat between the third-row seatbacks and the luggage board.
   1. Raise the luggage mat.


Luggage mat

   2. Remove the luggage mat.
   3. Insert the luggage mat between the luggage board and the third-row seatbacks.

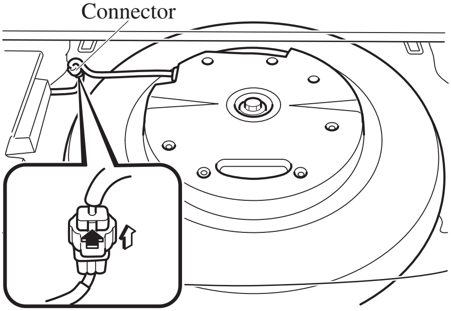

Luggage mat
Third-row seatback
Luggage board

Flat Tire

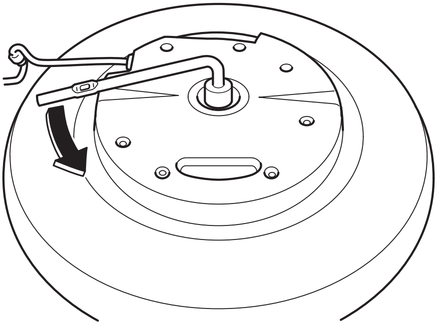
NOTE

When inserting the luggage mat, support the luggage board with one hand so that it does not come off the holders.

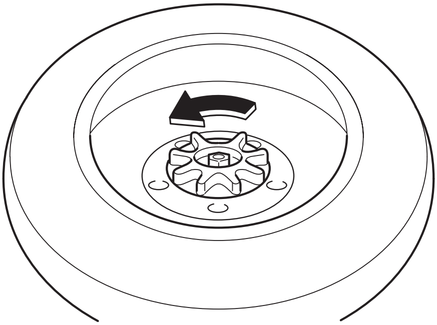
5. Remove the tool bag.
6. **(Vehicles with sub-woofer)**
   Disconnect the sub-woofer connector.



7. **(Vehicles with sub-woofer)**
   Turn the hold-down bolt counterclockwise and remove the sub-woofer and the spare tire.



(Vehicles without sub-woofer)
Turn the hold-down bolt counterclockwise and remove the spare tire.



To secure the spare tire

Store the spare tire in the reverse order of removal. After storing, verify that the spare tire is stored securely.

CAUTION

(Vehicles with sub-woofer)

- *Secure the sub-woofer in its correct position. If the sub-woofer is not installed to the correct position, it may move while the vehicle is driven which may damage the sub-woofer or the wiring harness.*
- *Store the tool bag on the right side of the vehicle. If the tool bag is stored on the left side of the vehicle, it may move while the vehicle is driven which may damage the wiring harness.*

Refer to Spare Tire and Tool Storage on page 7-3.

Changing a Flat Tire

NOTE

If the following occurs while driving, it could indicate a flat tire.

- *Steering becomes difficult.*
- *The vehicle begins to vibrate excessively.*
- *The vehicle pulls in one direction.*

If you have a flat tire, drive slowly to a level spot that is well off the road and out of the way of traffic to change the tire. Stopping in traffic or on the shoulder of a busy road is dangerous.

WARNING

Be sure to follow the directions for changing a tire:

Changing a tire is dangerous if not done properly. The vehicle can slip off the jack and seriously injure someone. No person should place any portion of their body under a vehicle that is supported by a jack.

Never allow anyone inside a vehicle supported by a jack:

Allowing someone to remain in a vehicle supported by a jack is dangerous. The occupant could cause the vehicle to fall resulting in serious injury.

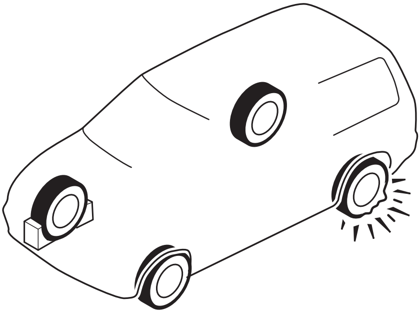
NOTE

Make sure the jack is well lubricated before using it.

1. Park on a hard, level surface off the right-of-way and firmly set the parking brake.
2. Shift into Park (P) and turn off the engine.

Flat Tire

3. Turn on the hazard warning flasher.
4. Have everyone get out of the vehicle and away from the vehicle and traffic.
5. Remove the jack, tool, and spare tire (page 7-3).
6. Block the wheel diagonally opposite the flat tire. When blocking a wheel, place a tire block both in front and behind the tire.

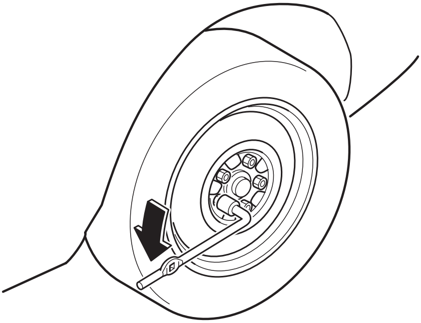


NOTE

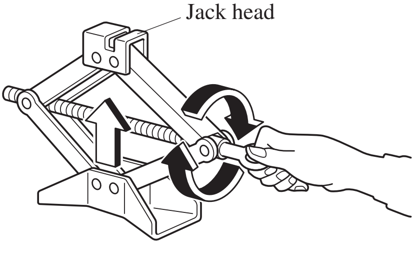
When blocking a tire, use rocks or wood blocks of sufficient size if possible to hold the tire in place.

▼Removing a Flat Tire

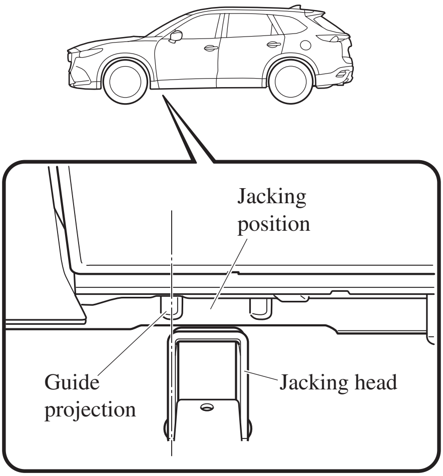
1. Loosen the lug nuts by turning them counterclockwise one turn each, but do not remove any lug nuts until the tire has been raised off the ground.



2. Place the jack on the ground.
3. Turn the jack screw in the direction shown in the figure and adjust the jack head so that it is close to the jack-up position.



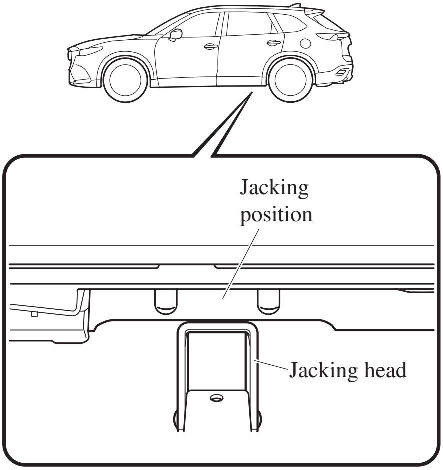
4. Set the jack to the designated jack-up position closest to the tire being removed.
   (Jacking-up the vehicle front)
   Set the groove on the top of the jack head at a right angle into the center of the designated jack-up position guide projection closest to the vehicle front.


Jacking position
Guide projection
Jacking head

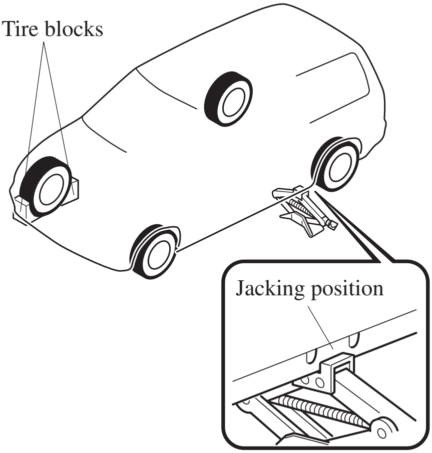
NOTE

Always set the jack into the designated jack-up position shown in the figure correctly.

(Jacking-up the vehicle rear)
Set the groove on the top of the jack head at a right angle between the designated jack-up position guide projections.


Jacking position
Jacking head

5. Continue raising the jack head gradually by rotating the screw with your hand until the jack head is inserted into the jack-up position.


Tire blocks
Jacking position

DEP DEALER ePROCESS

Flat Tire

WARNING

Use only the front and rear jacking positions recommended in this manual:

Attempting to jack the vehicle in positions other than those recommended in this manual is dangerous. The vehicle could slip off the jack and seriously injure or even kill someone. Use only the front and rear jacking positions recommended in this manual.

Do not jack up the vehicle in a position other than the designated jack-up position or place any objects on or under the jack:

Jacking up the vehicle in a position other than the designated jack-up position or placing objects on or under the jack is dangerous as it could deform the vehicle body or the vehicle could fall off the jack resulting in an accident.

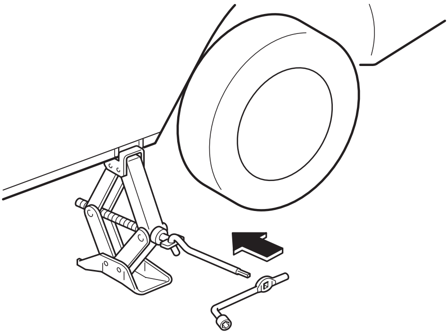
Use only the jack provided with your Mazda:

Using a jack that is not designed for your Mazda is dangerous. The vehicle could slip off the jack and seriously injure someone.

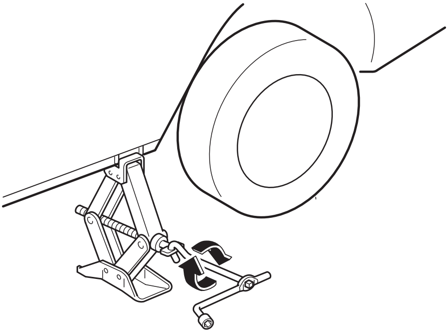
Never place objects under the jack:

Jacking the vehicle with an object under the jack is dangerous. The jack could slip and someone could be seriously injured by the jack or the falling vehicle.

6. Insert the jack lever and attach the lug wrench to tire jack.



7. Turn the jack handle clockwise and raise the vehicle high enough so that the spare tire can be installed. Before removing the lug nuts, make sure your Mazda is firmly in position and that it cannot slip or move.



DEP DEALER ePROCESS

WARNING

Do not jack up the vehicle higher than is necessary:

Jacking up the vehicle higher than is necessary is dangerous as it could destabilize the vehicle resulting in an accident.

Do not start the engine or shake the vehicle while it is jacked up:

Starting the engine or shaking the vehicle while it is jacked up is dangerous as it could cause the vehicle to fall off the jack resulting in an accident.

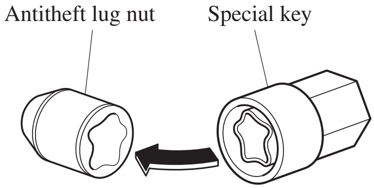
Never go under the vehicle while it is jacked up:

Going under the vehicle while it is jacked up is dangerous as it could result in death or serious injury if the vehicle were to fall off the jack.

8. Remove the lug nuts by turning them counterclockwise; then remove the wheel and center cap.

▼Locking Lug Nuts

If your vehicle has Mazda optional antitheft wheel lug nuts, each wheel will have one locking lug nut that locks the wheel and tire, and you must use a special key to unlock the locking lug nut. This key is stored in the glove compartment. Register the key and lug nuts with the lock manufacturer by filling out the card provided in the glove compartment and mailing it in the accompanying envelope. If you lose this key, consult an Authorized Mazda Dealer or use the lock manufacturer's order form, which is with the registration card.
Accessory wheel locks cannot be used on steel wheels. This includes situations when the spare tire is installed. If the spare tire is installed, one of the original lug nuts (which should still be in the vehicle) must be installed in place of the wheel lock.



To remove an antitheft lug nut

1. Obtain the special key for the antitheft lug nut.
2. Place the special key on top of the antitheft lug nut, and be sure to hold the key square to it. If you hold the key at an angle, you may damage both key and nut. Do not use a power impact wrench.
3. Place the lug wrench on top of the key and apply pressure. Turn the wrench counterclockwise.

DEP DEALER ePROCESS

To install the antitheft lug nut

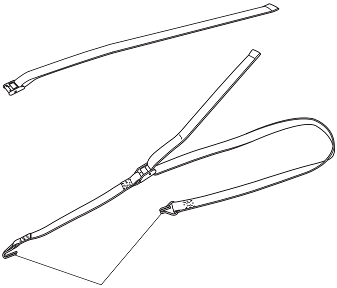
1. Place the special key on top of the nut, and be sure to hold the key square to it. If you hold the key at an angle, you may damage both key and nut. Do not use a power impact wrench.
2. Place the lug wrench on top of the special key, apply pressure, and turn it clockwise.

Nut tightening torque	
N·m (kgf·m, ft·lbf)	108—147 (12—14, 80—108)

▼Mounting the Spare Tire

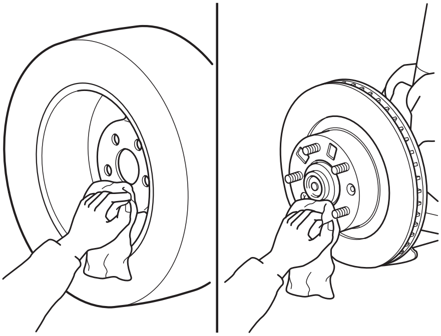
NOTE

The number and shape of the flat tire belt differ depending on the vehicle specification.



- *The flat tire belts with the clips are for securing a flat tire.*
- *The flat tire belts without the clips are for securing the sub-woofer.*

1. Remove dirt and grime from the mounting surfaces of the wheel and hub, including the hub bolts, with a cloth.



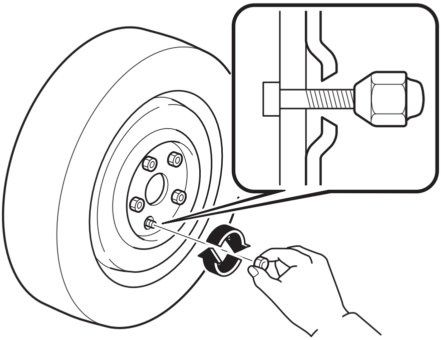
WARNING

Make sure the mounting surfaces of the wheel, hub and lug nuts are clean before changing or replacing tires:

When changing or replacing a tire, not removing dirt and grime from the mounting surfaces of the wheel, hub and hub bolts is dangerous. The lug nuts could loosen while driving and cause the tire to come off, resulting in an accident.

2. Mount the spare tire.

3. Install the lug nuts with the beveled edge inward; tighten them by hand.



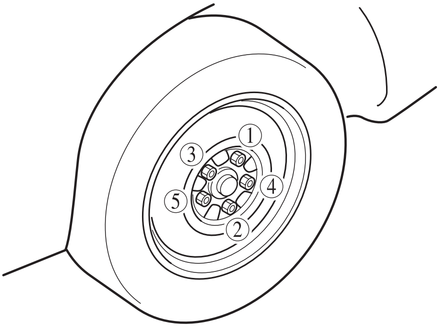
⚠ WARNING

Do not apply oil or grease to lug nuts and bolts and do not tighten the lug nuts beyond the recommended tightening torque:

Applying oil or grease to lug nuts and bolts is dangerous. The lug nuts could loosen while driving and cause the tire to come off, resulting in an accident. In addition, lug nuts and bolts could be damaged if tightened more than necessary.

4. Turn the lug wrench counterclockwise and lower the vehicle.

5. Use the lug wrench to tighten the nuts in the order shown.



If you are unsure of how tight the nuts should be, have them inspected at an Authorized Mazda Dealer.

Nut tightening torque	
N·m (kgf·m, ft·lbf)	108—147 (12—14, 80—108)

⚠ WARNING

Always securely and correctly tighten the lug nuts:

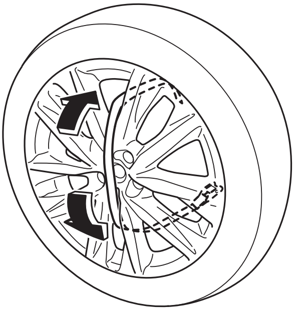
Improperly or loosely tightened lug nuts are dangerous. The wheel could wobble or come off. This could result in loss of vehicle control and cause a serious accident.

Be sure to reinstall the same nuts you removed or replace them with metric nuts of the same configuration:

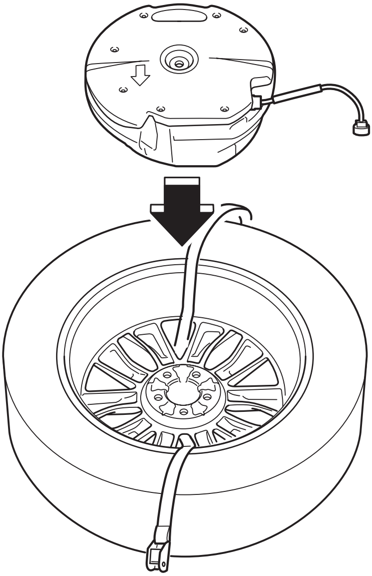
Because the wheel studs and lug nuts on your Mazda have metric threads, using a non-metric nut is dangerous. On a metric stud, it would not secure the wheel and would damage the stud, which could cause the wheel to slip off and cause an accident.

Flat Tire

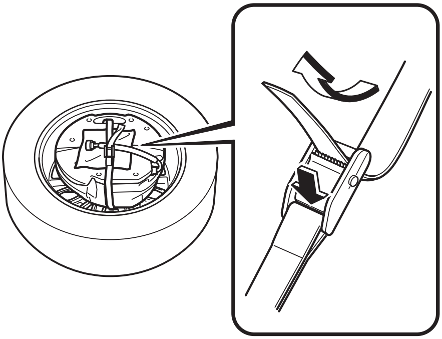
6. **(Vehicles with sub-woofer)** Secure the sub-woofer to the flat tire using the flat tire belt.
   1. Pass the flat tire belt through the wheel of the flat tire.



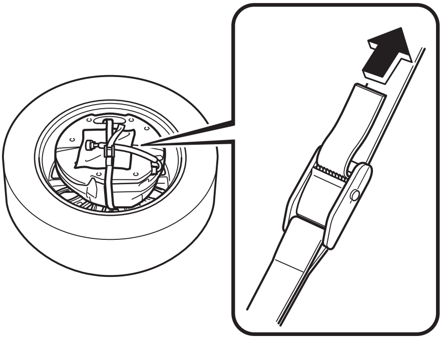
   2. Install the sub-woofer to the flat tire.



   3. Pass the flat tire belt through the buckle.



   4. Pull the end of the flat tire belt and secure the sub-woofer and the wiring harness to the flat tire.

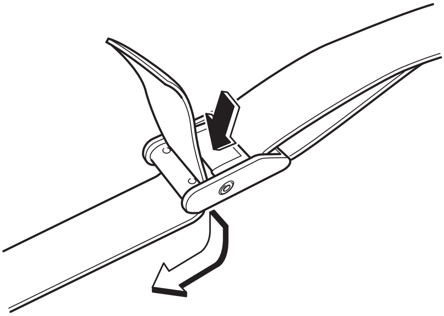


CAUTION

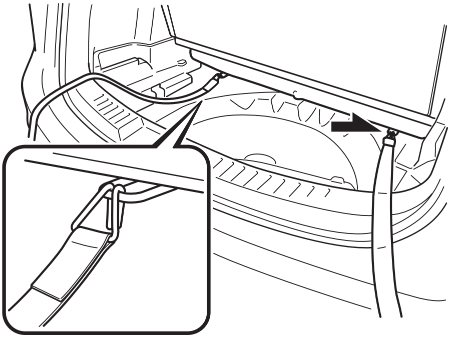
When pulling the flat tire belt, wrap the buckle with a cloth. If the buckle directly contacts the sub-woofer, the sub-woofer may be damaged.

7. **(Vehicles except for Mexico)** Secure the flat tire in the luggage compartment using the flat tire belt.

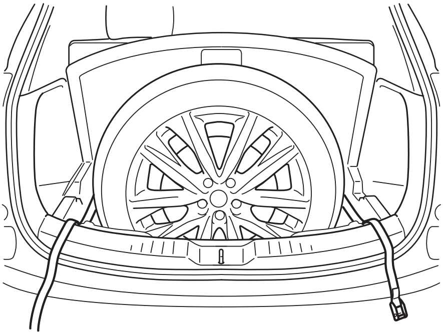
   1. Pull the flat tire belts out of the buckle to separate them into two belts.



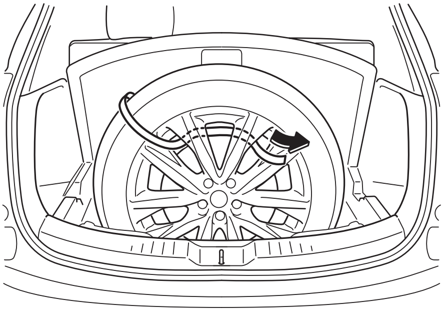
   2. Hook the clips of the flat tire belts to the hooks under the third-row seat.



   3. Place the flat tire in the luggage compartment so that it leans against the luggage board.

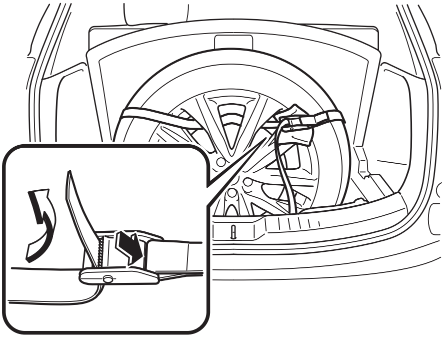


   4. Pass the flat tire belts through the wheel of the flat tire.

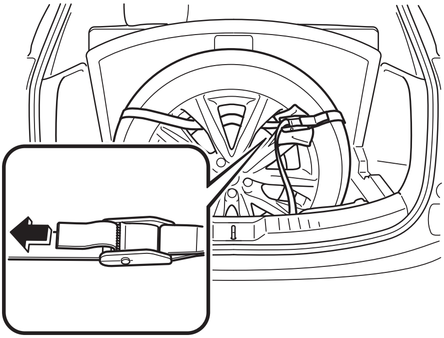


Flat Tire

5. Pass the flat tire belts through the buckle.



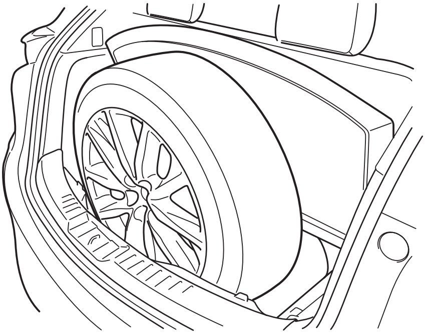
6. While pressing the flat tire against the third-row seat, pull the ends of the flat tire belts and secure the flat tire.



⚠ CAUTION

When pulling the flat tire belts, wrap the buckle with a cloth. If the buckle directly contacts the aluminum wheel, the wheel may be damaged.

8. **(Vehicles for Mexico)** Place the flat tire in the luggage compartment so that it leans against the luggage board.



⚠ CAUTION

Tuck a cloth between the flat tire and the vehicle trim. If the flat tire directly contacts the vehicle trim, the trim may be damaged.

9. Slowly close the liftgate while making sure that the liftgate trim does not contact the flat tire.

NOTE

If the liftgate trim contacts the flat tire, adjust the position of the flat tire.

10. Make sure that the liftgate closes securely.
11. Check the tire inflation pressure. Refer to the specification charts on page 9-9.
12. Have the flat tire repaired or replaced as soon as possible.

NOTE

(With tire pressure monitoring system)

Do not press the tire pressure monitoring system set switch after installing the spare tire. The switch is only to be pressed after installing the repaired flat tire or installing a replacement tire (page 4-153).

⚠ WARNING

Do not drive with any tires that have incorrect air pressure:

Driving on tires with incorrect air pressure is dangerous. Tires with incorrect pressure could affect handling and result in an accident. When you check the regular tires' air pressure, check the spare tire, too.

NOTE

To prevent the jack and tool from rattling, store them properly.

Battery Runs Out

Jump-Starting

Jump-starting is dangerous if done incorrectly. So follow the procedure carefully. If you feel unsure about jump-starting, we strongly recommend that you have a competent service technician do the work.

⚠ WARNING

Follow These Precautions Carefully:

To ensure safe and correct handling of the battery, read the following precautions carefully before using the battery or inspecting it.

Do not allow the positive (+) terminal to contact any other metal object that could cause sparks:

Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries. When working near a battery, do not allow metal tools to contact the positive (+) or negative (−) terminal of the battery.

Keep all flames, including cigarettes, and sparks away from open battery cells:

Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries.

Do not jump-start a frozen battery or one with a low fluid level:

Jump-starting a frozen battery or one with a low fluid level is dangerous. It may rupture or explode, causing serious injury.

Connect the negative cable to a good ground point away from the battery:

Connecting the end of the second jumper cable to the negative (−) terminal of the discharged battery is dangerous.

A spark could cause the gas around the battery to explode and injure someone.

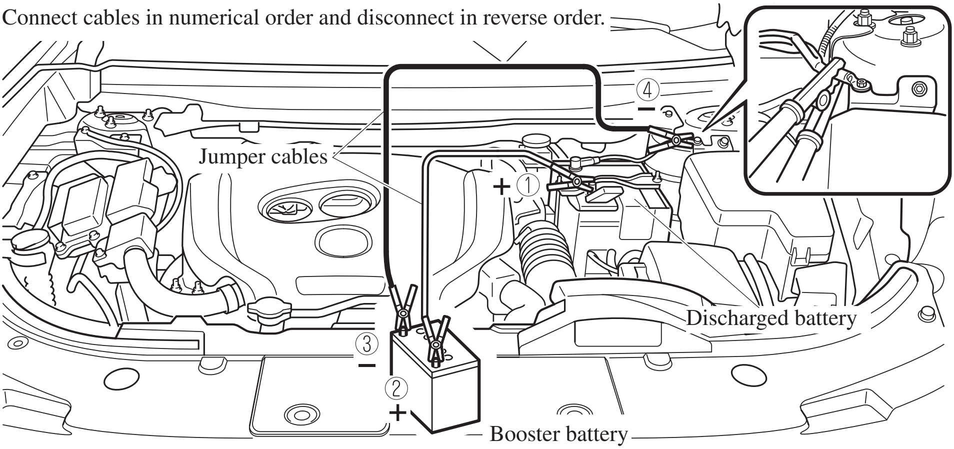
Route the jumper cables away from parts that will be moving:

Connecting a jumper cable near or to moving parts (cooling fans, belts) is dangerous. The cable could get caught when the engine starts and cause serious injury.

CAUTION

Use only a 12 V booster system. You can damage a 12 V starter, ignition system, and other electrical parts beyond repair with a 24 V power supply (two 12 V batteries in series or a 24 V motor generator set).

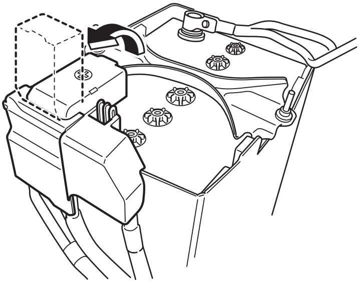
Connect cables in numerical order and disconnect in reverse order.


Jumper cables
① +
② +
③ −
④ −
Discharged battery
Booster battery

DEP DEALER ePROCESS

Battery Runs Out

1. Remove the battery cover.



2. Make sure the booster battery is 12 V and that its negative terminal is grounded.
3. If the booster battery is in another vehicle, do not allow both vehicles to touch. Turn off the engine of the vehicle with the booster battery and all unnecessary electrical loads in both vehicles.
4. Connect the jumper cables in the exact sequence as in the illustration.
    - Connect one end of a cable to the positive terminal on the discharged battery (1).
    - Attach the other end to the positive terminal on the booster battery (2).
    - Connect one end of the other cable to the negative terminal of the booster battery (3).
    - Connect the other end to the ground point indicated in the illustration away from the discharged battery (4).
5. Start the engine of the booster vehicle and run it a few minutes. Then start the engine of the other vehicle.
6. When finished, carefully disconnect the cables in the reverse order described in the illustration.
7. If the battery cover has been removed, install it in the reverse order of removal.

NOTE

Verify that the covers are securely installed.

Starting a Flooded Engine

If the engine fails to start, it may be flooded (excessive fuel in the engine).

Follow this procedure:

1. If the engine does not start within five seconds on the first try, wait ten seconds and try again.
2. Make sure the parking brake is on.
3. Depress the accelerator all the way and hold it there.
4. Depress the brake pedal, then press the push button start. If the engine starts, release the accelerator immediately because the engine will suddenly rev up.
5. If the engine fails to start, crank it without depressing the accelerator.

If the engine still does not start using the previous procedure, have your vehicle inspected by an Authorized Mazda Dealer.

Push-Starting

Do not push-start your Mazda.

⚠ WARNING

Never tow a vehicle to start it:

Towing a vehicle to start it is dangerous. The vehicle being towed could surge forward when its engine starts, causing the two vehicles to collide. The occupants could be injured.

NOTE

You cannot start a vehicle with an automatic transaxle by pushing it.

Overheating

If the temperature gauge indicates overheating or the high engine coolant temperature warning light turns on, the vehicle loses power, or you hear a loud knocking or pinging noise, the engine is probably too hot.

⚠ WARNING

Pull over to a safe location, then switch the ignition off and make sure the fan is not running before attempting to work near the cooling fan:

> *Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.*

Do not remove either cooling system cap when the engine and radiator are hot:

> *When the engine and radiator are hot, scalding coolant and steam may shoot out under pressure and cause serious injury.*

Open the hood ONLY after steam is no longer escaping from the engine:

> *Steam from an overheated engine is dangerous. The escaping steam could seriously burn you.*

If the temperature gauge indicates overheating or the high engine coolant temperature warning light turns on:

1. Drive safely to the side of the road and park off the right-of-way.
2. Shift into park (P).
3. Apply the parking brake.
4. Turn off the air conditioner.
5. Check whether coolant or steam is escaping from the engine compartment.

If steam is coming from the engine compartment:

Do not go near the front of the vehicle. Stop the engine.
Wait until the steam dissipates, then open the hood and start the engine.

If neither coolant nor steam is escaping:

Open the hood and idle the engine until it cools.

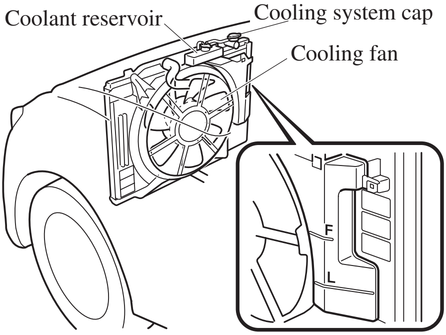
⚠ CAUTION

> *If the cooling fan does not operate while the engine is running, the engine temperature will increase. Stop the engine and call an Authorized Mazda Dealer.*

6. Make sure the cooling fan is operating, then turn off the engine after the temperature has decreased.
7. When cool, check the coolant level.
   If it is low, look for coolant leaks from the radiator and hoses.

If you find a leak or other damage, or if coolant is still leaking:

Stop the engine and call an Authorized Mazda Dealer.


Coolant reservoir
Cooling system cap
Cooling fan
F
L

If you find no problems, the engine is cool, and no leaks are obvious:

Carefully add coolant as required (page 6-29).

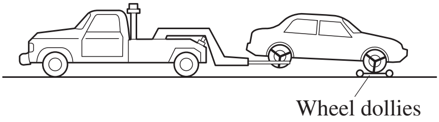
CAUTION

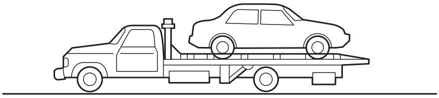
If the engine continues to overheat or frequently overheats, have the cooling system inspected. The engine could be seriously damaged unless repairs are made. Consult an Authorized Mazda Dealer.

Towing Description

We recommend that towing be done only by an Authorized Mazda Dealer or a commercial tow-truck service.

Proper lifting and towing are necessary to prevent damage to the vehicle. Particularly when towing an AWD vehicle, where all the wheels are connected to the drive train, proper transporting of the vehicle is absolutely essential to avoid damaging the drive system. Government and local laws must be followed.





A towed 2WD vehicle should have its drive wheels (front wheels) off the ground. If excessive damage or other conditions prevent this, use wheel dollies.

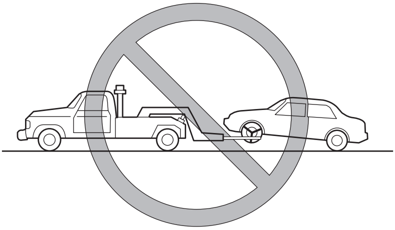
When towing a 2WD vehicle with the rear wheels on the ground, release the parking brake.

A towed AWD vehicle must have all its wheels off the ground.

⚠ WARNING

Always tow an AWD vehicle with all four wheels off the ground:

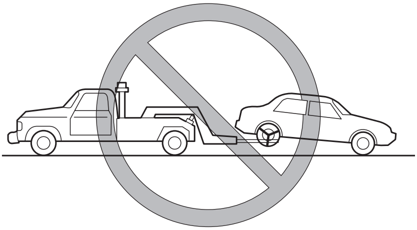
Towing an AWD vehicle with either the front or rear wheels on the ground is dangerous as the drive train could be damaged, or the vehicle could trail away from the tow truck and cause an accident. If the drive train has been damaged, transport the vehicle on a flat bed truck.



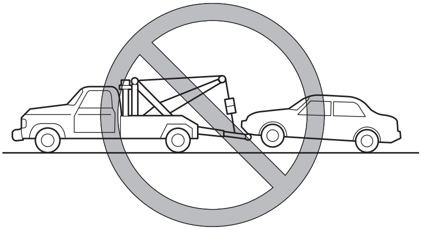
DEP DEALER ePROCESS

CAUTION

- *Do not tow the vehicle pointed backward with driving wheels on the ground. This may cause internal damage to the transaxle.*



- *Do not tow with sling-type equipment. This could damage your vehicle. Use wheel-lift or flatbed equipment.*



Towing Hooks (Mexico)

CAUTION

- *The towing eyelet should be used in an emergency (to get the vehicle out of a ditch or a snow bank, for example).*
- *When using the towing eyelets, always pull the cable or chain in a straight direction with respect to the eyelet. Never apply a sideways force.*

NOTE

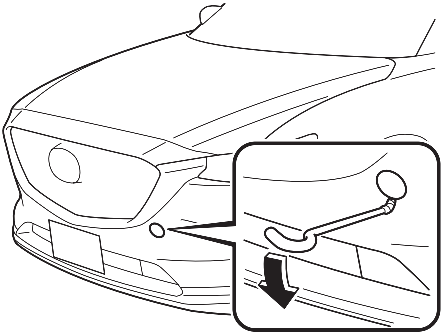
When towing with chain or cable, wrap the chain or cable with a soft cloth near the bumper to prevent damage to the bumper.

Emergency Towing

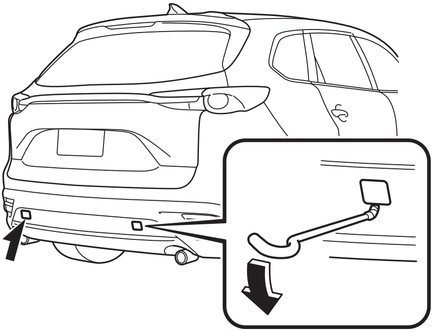
▼Towing Hooks

1. Remove the towing eyelet and the lug wrench from the luggage compartment (page 7-3).
2. Wrap a flathead screwdriver or similar tool with a soft cloth to prevent damage to a painted bumper, and open the cap located on the front or rear bumper.

Front



Rear



⚠CAUTION

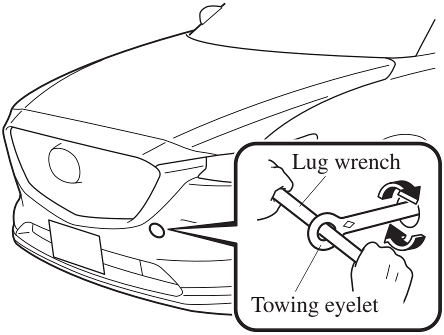
Do not use excessive force as it may damage the cap or scratch the painted bumper surface.

NOTE

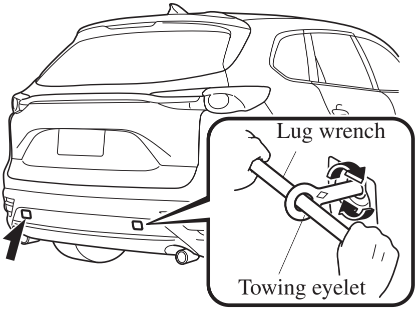
Remove the cap completely and store it so as not to lose it.

3. Securely install the towing eyelet using the lug wrench.

Front



Rear



4. Hook the towing rope to the towing eyelet.

CAUTION

- *If the towing eyelet is not securely tightened, it may loosen or disengage from the bumper when towing the vehicle. Make sure that the towing eyelet is securely tightened to the bumper.*
- *Be careful not to damage the towing eyelet and towing hook, vehicle body, or transaxle system when towing under the following conditions:*
  - *Do not tow a vehicle heavier than yours.*
  - *Do not suddenly accelerate your vehicle as it will apply a severe shock to the towing eyelet and towing hook or rope.*
  - *Do not attach any rope other than to the towing eyelet and towing hook.*

If a Warning Light Turns On or Flashes

If any warning light turns on/flashes, take appropriate action for each light. There is no problem if the light turns off, however if the light does not turn off or turns on/flashes again, consult an Authorized Mazda Dealer.
The warning contents can be verified on the center display.

1. If the warning light is turned on, select Ⓐ icon on the home screen to display the application screen.
2. Select “Vehicle Status Monitor”.
3. Select “Warning Guidance” to display the current warnings.
4. Select the applicable warning to view the warning details.

▼Stop Vehicle in Safe Place Immediately

If any of the following warning lights turns on, the system may have a malfunction. Stop the vehicle in a safe place immediately and contact an Authorized Mazda Dealer.

Signal	Warning
(!) BRAKE Brake System Warning Indication/Warning Light	This warning has the following functions: **Parking brake warning/Warning light inspection** The light illuminates when the electric parking brake is applied with the ignition switched to START or ON. It turns off when the electric parking brake is released. **When the light turns on** If the brake system warning light remains turned on even though the electric parking brake is released, the brake fluid may be low or there could be a problem with the brake system. Park the vehicle in a safe place immediately and contact an Authorized Mazda Dealer. **When the light is flashing** The light flashes if the electric parking brake has a malfunction. If the light remains flashing even if the electric parking brake switch is operated, consult an Authorized Mazda Dealer as soon as possible. **⚠ WARNING** ***Do not drive with the brake system warning light illuminated. Contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible:*** *Driving with the brake system warning light illuminated is dangerous. It indicates that your brakes may not work at all or that they could completely fail at any time. If this light remains illuminated, after checking that the parking brake is fully released, have the brakes inspected immediately.* **⚠ CAUTION** *In addition, the effectiveness of the braking may diminish so you may need to depress the brake pedal more strongly than normal to stop the vehicle.*

Signal	Warning
(!) BRAKE (ABS) ABS Electronic Brake Force Distribution System Warning	If the electronic brake force distribution control unit determines that some components are operating incorrectly, the control unit may illuminate the brake system warning light and the ABS warning light simultaneously. The problem is likely to be the electronic brake force distribution system. **⚠ WARNING** ***Do not drive with both the ABS warning light and brake warning light illuminated. Have the vehicle towed to an Authorized Mazda Dealer to have the brakes inspected as soon as possible:*** *Driving when the brake system warning light and ABS warning light are illuminated simultaneously is dangerous.* *When both lights are illuminated, the rear wheels could lock more quickly in an emergency stop than under normal circumstances.*
− + Charging System Warning Indication/ Warning Light	If the warning light illuminates while driving, it indicates a malfunction of the alternator or of the charging system. Drive to the side of the road and park off the right-of-way. Consult an Authorized Mazda Dealer. **⚠ CAUTION** *Do not continue driving when the charging system warning light is illuminated because the engine could stop unexpectedly.*
Engine Oil Warning Light	This warning light indicates low engine oil pressure. **⚠ CAUTION** *Do not run the engine if the oil pressure is low. Otherwise, it could result in extensive engine damage.* If the light illuminates or the warning indication is displayed while driving: 1.Drive to the side of the road and park off the right-of-way on level ground. 2.Turn off the engine and wait 5 minutes for the oil to drain back into the oil pan. 3.Inspect the engine oil level 6-29. If it's low, add the appropriate amount of engine oil while being careful not to overfill. **⚠ CAUTION** *Do not run the engine if the oil level is low. Otherwise, it could result in extensive engine damage.* 4.Start the engine and check the warning light. If the light remains illuminated even though the oil level is normal or after adding oil, stop the engine immediately and have your vehicle towed to an Authorized Mazda Dealer.

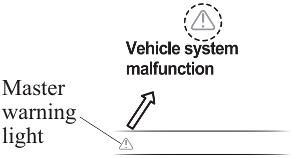
Warning/Indicator Lights and Warning Sounds

Signal	Warning
(Red) High Engine Coolant Temperature Warning Indication/Warning Light	The light flashes when the engine coolant temperature is extremely high, and illuminates when the engine coolant temperature increases further. **Handling Procedure** **Flashing light** Drive slowly to reduce engine load until you can find a safe place to stop the vehicle and wait for the engine to cool down. **Illuminated light** This indicates the possibility of overheating. Park the vehicle in a safe place immediately and stop the engine. Refer to Overheating 7-24. **CAUTION** *Do not drive the vehicle with the high engine coolant temperature warning light illuminated. Otherwise, it could result in damage to the engine.*
Power Steering Malfunction Indication*	The message is displayed if the electric power steering has a malfunction. If the message is displayed, stop the vehicle in a safe place and do not operate the steering wheel. There is no problem if the message in the display turns off after a while. Contact an Authorized Mazda Dealer if the message is displayed continuously. ***NOTE*** • If the message is displayed, the power steering will not operate normally. In this case, the steering wheel can still be operated, however, the operation may feel heavy compared to normal, or the steering wheel could vibrate when turning. • Repeatedly jerking the steering wheel left and right while the vehicle is stopped or moving extremely slowly will cause the power steering system to go into protective mode which will make the steering feel heavy, but this does not indicate a problem. If this occurs, park the vehicle safely and wait several minutes for the system to return to normal.
Power Steering Malfunction Indicator Light*	The light illuminates/flashes if the electric power steering has a malfunction. If the light illuminates/flashes, stop the vehicle in a safe place and do not operate the steering wheel. There is no problem if the light turns off after a while. Contact an Authorized Mazda Dealer if the light illuminates/flashes continuously. ***NOTE*** • If the indicator light illuminates/flashes, the power steering will not operate normally. In this happens, the steering wheel can still be operated, however, the operation may feel heavy compared to normal, or the steering wheel could vibrate when turning. • Repeatedly jerking the steering wheel left and right while the vehicle is stopped or moving extremely slowly will cause the power steering system to go into protective mode which will make the steering feel heavy, but this does not indicate a problem. If this occurs, park the vehicle safely and wait several minutes for the system to return to normal.

*Some models.

▼Contact Authorized Mazda Dealer and Have Vehicle Inspected

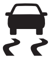
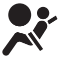
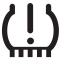
If any of the following warning lights or the indicator light turns on/flashes, the system may have a malfunction. Contact an Authorized Mazda Dealer to have your vehicle inspected.

Signal	Warning
(ABS)/ABS ABS Warning Light	If the ABS warning light stays on while you're driving, the ABS control unit has detected a system malfunction. If this occurs, your brakes will function normally as if the vehicle had no ABS. Should this happen, consult an Authorized Mazda Dealer as soon as possible. ***NOTE*** •When the engine is jump-started to charge the battery, uneven rpm occurs and the ABS warning light may illuminate. If this occurs, it is the result of the weak battery and does not indicate an ABS malfunction. Recharge the battery. •The brake assist system does not operate while the ABS warning light is illuminated.
⚠ Master Warning Indication/Warning Light	**Type A instrument cluster** Displays when notification of the system malfunctions is required. Check the message indicated in the display and consult an Authorized Mazda Dealer.  Indication in display and master warning light in instrument cluster are illuminated at same time. This indicates a malfunction with the vehicle system. Check the message indicated in the display and consult an Authorized Mazda Dealer. For details, refer to the explanations for the warning/indicator lights, in the warning/indicator lights section, which match the symbol in the upper part of the display. If a message is not indicated in the display, operate the INFO switch to display the “Warning” screen. Refer to Message Indicated in Multi-information Display and INFO Switch on page 4-21. **Type B instrument cluster** The light illuminates continuously if any one of the following occurs. Consult an Authorized Mazda Dealer. •There is a malfunction in the battery management system. •There is a malfunction in the brake switch.
(P!) Electric Parking Brake Warning Light	The warning light illuminates when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer.
Engine Oil Level Warning Indication*	The message is displayed when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer.

Warning/Indicator Lights and Warning Sounds

Signal	Warning
Check Engine Light	If this light illuminates while driving, the vehicle may have a problem. It is important to note the driving conditions when the light illuminated and consult an Authorized Mazda Dealer. The check engine light may illuminate in the following cases: •The fuel tank level being very low or approaching empty. •The engine's electrical system has a problem. •The emission control system has a problem. •The fuel-filler cap is missing or not tightened securely. If the check engine light remains on, or it flashes continuously , do not drive at high speeds and consult an Authorized Mazda Dealer as soon as possible.
AT Automatic Transaxle Warning Indication/Warning Light	The indication/light illuminates when the transaxle has a problem. **⚠ CAUTION** *If the automatic transaxle warning indication/light illuminates, the transaxle has an electrical problem. Continuing to drive your Mazda in this condition could cause damage to your transaxle. Consult an Authorized Mazda Dealer as soon as possible.*
4WD AWD Warning Indication*	**“4WD System Malfunction” is displayed** The indication is displayed under the following conditions. The system may have a malfunction. Have the vehicle checked at an Authorized Mazda Dealer. •When there is a malfunction in the AWD system. •When there is a large difference between the tire size of the front and rear wheels. **“4WD System High Load” is displayed** The indication is displayed under the following conditions. Park the vehicle in a safe place and check that the warning indication light turns off, and then drive the vehicle. Contact an Authorized Mazda Dealer if the indication is continuously displayed. •When the differential oil temperature is excessively high. •When there is a large difference between the front and rear wheel rotation, such as when trying to remove the vehicle from mud.
4WD AWD Warning Light*	**When the light is turned on** The light turns on under the following conditions. The system may have a malfunction. Have the vehicle checked at an Authorized Mazda Dealer. •When there is a malfunction in the AWD system. •When there is a large difference between the tire size of the front and rear wheels. **When the light is flashing** Park the vehicle in a safe place. After a few moments, if the warning light stops flashing, you can resume driving. If the light does not stop flashing, contact an Authorized Mazda Dealer. •When the differential oil temperature is excessively high. •When there is a large difference between the front and rear wheel rotation, such as when trying to remove the vehicle from mud.

*Some models.

Signal	Warning
 (Illuminate) TCS/DSC Indicator Light	If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.
 Air Bag/Front Seat Belt Pretensioner System Warning Light	A system malfunction is indicated if the warning light constantly flashes, constantly illuminates or does not illuminate at all when the ignition is switched ON. If any of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not operate in an accident. **⚠ WARNING** ***Never tamper with the air bag/pretensioner systems and always have an Authorized Mazda Dealer perform all servicing and repairs:*** *Self-servicing or tampering with the systems is dangerous. An air bag/pretensioner could accidentally activate or become disabled causing serious injury or death.*
 (Flashing) Tire Pressure Monitoring System Warning Light*	If the tire pressure monitoring system has a malfunction, the tire pressure warning light flashes for about 1 minute when the ignition is switched ON and then continues illuminating. Have your vehicle checked by an Authorized Mazda Dealer as soon as possible. **⚠ WARNING** ***If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, decrease vehicle speed immediately and avoid sudden maneuvering and braking:*** *If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, it is dangerous to drive the vehicle at high speeds, or perform sudden maneuvering or braking. Vehicle drivability could worsen and result in an accident.* *To determine if you have a slow leak or a flat, pull over to a safe position where you can check the visual condition of the tire and determine if you have enough air to proceed to a place where air may be added and the system monitored again by an Authorized Mazda Dealer or a tire repair station.* ***Do not ignore the TPMS Warning Light:*** *Ignoring the TPMS warning light is dangerous, even if you know why it is illuminated. Have the problem taken care of as soon as possible before it develops into a more serious situation that could lead to tire failure and a dangerous accident.*

*Some models.

Warning/Indicator Lights and Warning Sounds

Signal	Warning
(Amber) KEY Warning Indication*	**"Keyless System Malfunction" is displayed** This message is displayed if the advanced keyless entry & push button start system has a problem. Contact an Authorized Mazda Dealer. **CAUTION** *If the message is indicated, or the push button start indicator light (amber) flashes, the engine may not start. If the engine cannot be started, try starting it using the emergency operation for starting the engine, and have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.* *Refer to Emergency Operation for Starting the Engine on page 4-10.* **"Ignition is On" is displayed** This message is displayed when the driver's door is opened without switching the ignition off. **"Key Not Detected" is displayed** This message is displayed when any of the following operations is performed with the key out of the operational range or placed in areas inside the cabin where it is difficult for the key to be detected. •The push button start is pressed with the ignition switched off •The ignition is switched on •All doors are closed without switching the ignition off
(Red) (Illuminate) KEY Warning Light*	If any malfunction occurs in the keyless entry system, it illuminates continuously. **CAUTION** *If the key warning indicator light illuminates or the push button start indicator light (amber) flashes, the engine may not start. If the engine cannot be started, try starting it using the emergency operation for starting the engine, and have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.* *Refer to Emergency Operation for Starting the Engine on page 4-10.*
A (Amber) High Beam Control System (HBC) Warning Light*	The light remains turned on if there is a problem with the system. Have your vehicle inspected at an Authorized Mazda Dealer. ***NOTE*** If the windshield area in front of the Forward Sensing Camera (FSC) is fogged or obstructed, the light turns on temporarily. If the light remains turned on, there may be a problem with the system.
Blind Spot Monitoring (BSM) Warning Indication/ Warning Light*	This light illuminates if there is a malfunction in the Blind Spot Monitoring (BSM). Have your vehicle inspected by an Authorized Mazda Dealer. ***NOTE*** If the vehicle is driven on a road with less traffic and few vehicles that the radar sensors can detect, the system may pause. However, it does not indicate a malfunction.

*Some models.

Warning/Indicator Lights and Warning Sounds

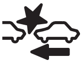
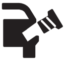
Signal	Warning
(Amber) Mazda Radar Cruise Control (MRCC) Warning Indication*	The “Front Radar Sensor System Malfunction” is displayed if there is a malfunction in the system while the Mazda Radar Cruise Control (MRCC) system is on. Have your vehicle inspected at an Authorized Mazda Dealer.
(Amber) Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Warning Indication*	The message is displayed when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer. The system does not operate when the warning message is displayed. ⚠ **CAUTION** ➢Always use tires for all wheels that are of the specified size, and the same manufacture, brand, and tread pattern. In addition, do not use tires with significantly different wear patterns on the same vehicle. If such improper tires are used, the system may not operate normally. ➢When an emergency spare tire is used, the system may not operate normally.
LED Headlight Warning Light	This light illuminates if there is a malfunction in the LED headlight. Have your vehicle inspected by an Authorized Mazda Dealer.

▼Taking Action

Take the appropriate action and verify that the warning light turns off.

Signal	Warning	Action to be taken
(!) (Illuminate) Tire Pressure Monitoring System Warning Light*	When the warning light illuminates, and the warning beep sound is heard (about 3 seconds), tire pressure is too low in one or more tires. **⚠ WARNING** ***If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, decrease vehicle speed immediately and avoid sudden maneuvering and braking:*** *If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, it is dangerous to drive the vehicle at high speeds, or perform sudden maneuvering or braking. Vehicle drivability could worsen and result in an accident.* *To determine if you have a slow leak or a flat, pull over to a safe position where you can check the visual condition of the tire and determine if you have enough air to proceed to a place where air may be added and the system monitored again by an Authorized Mazda Dealer or a tire repair station.* ***Do not ignore the TPMS Warning Light:*** *Ignoring the TPMS warning light is dangerous, even if you know why it is illuminated. Have the problem taken care of as soon as possible before it develops into a more serious situation that could lead to tire failure and a dangerous accident.*	Inspect the tires and adjust to the specified inflation pressure (page 6-43). ***NOTE*** • Perform tire pressure adjustment when the tires are cold. Tire pressure will vary according to the tire temperature, therefore let the vehicle stand for 1 hour or only drive it 1.6 km (1 mile) or less before adjusting the tire pressures. When pressure is adjusted on hot tires to the cold inflation pressure, the TPMS warning light/beep may turn on after the tires cool and pressure drops below specification. Also, an illuminated TPMS warning light, resulting from the tire air pressure dropping due to cold ambient temperature will remain illuminated even if the ambient temperature rises. In this case, it will also be necessary to adjust the tire air pressures. If the TPMS warning light illuminates due to a drop in tire air pressure, make sure to check and adjust the tire air pressures. • Tires lose air naturally over time and the TPMS cannot tell if the tires are getting too soft over time or you have a flat. However, when you find one low tire in a set of four-that is an indication of trouble; you should have someone drive the vehicle slowly forward so you can inspect any low tire for cuts and any metal objects sticking through tread or sidewall. Put a few drops of water in the valve stem to see if it bubbles indicating a bad valve. Leaks need to be addressed by more than simply reinflating the tire as leaks are dangerous — take it to an Authorized Mazda Dealer.

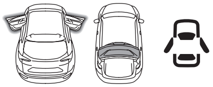
*Some models.

Signal	Warning	Action to be taken
 Smart Brake Support/ Smart City Brake Support (SBS/SCBS) Warning Light*	The light turns on if the windshield or the radar sensor are dirty, or there is a malfunction in the system.	Verify the reason why the warning light is illuminated on the center display. If the reason why the warning light is illuminated is due to a dirty windshield, clean the windshield. If the warning light is illuminated because of a dirty radar sensor, clean the front emblem. For any other reasons, have the vehicle inspected at an Authorized Mazda Dealer.
Low Fuel Warning Indication/Warning Light	The light turns on when the remaining fuel is about 9.0 L (2.3 US gal, 1.9 Imp gal). ***NOTE*** The light illumination timing may vary because fuel inside the fuel tank moves around according to the driving conditions and the vehicle posture.	Add fuel.
 Check Fuel Cap Warning Indication/Warning Light*	If the check fuel cap warning light illuminates while driving, the fuel-filler cap may not be installed properly.	Stop the engine and reinstall the fuel-filler cap. Refer to Fuel-Filler Cap on page 3-32

*Some models.

Warning/Indicator Lights and Warning Sounds

Signal	Warning	Action to be taken
PASS Seat Belt Warning Light	**Except Mexico** The seat belt warning light turns on if the driver or front passenger's seat is occupied and the seat belt is not fastened with the ignition switched ON. If the driver or front passenger's seat belt is unfastened (only when the front passenger's seat is occupied) and the vehicle is driven at a speed faster than about 20 km/h (12 mph), the warning light flashes. After a short time, the warning light stops flashing, but remains illuminated. ***NOTE*** - The warning light flashes for about 6 seconds if the driver's seat belt is not fastened when the ignition is switched ON. - To allow the front passenger occupant classification sensor to function properly, do not place and sit on an additional seat cushion on the front passenger's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference. - If a small child is seated on the front passenger's seat, the warning light may not operate. **Mexico** The seat belt warning light turns on if the driver or front passenger's seat is occupied and the seat belt is not fastened with the ignition switched ON. If the driver or front passenger's seat belt is unfastened (only when the front passenger's seat is occupied) and the vehicle is driven at a speed faster than about 20 km/h (12 mph), the warning light flashes. After a short time, the warning light stops flashing, but remains illuminated. If a seat belt remains unfastened, the warning light flashes again for a given period of time. ***NOTE*** - Placing heavy items on the front passenger's seat may cause the front passenger's seat belt warning function to operate depending on the weight of the item. - To allow the front passenger seat weight sensor to function properly, do not place and sit on an additional seat cushion on the front passenger's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference. - If a small child is seated on the front passenger's seat, the warning light may not operate.	Fasten the seat belts.

Signal	Warning	Action to be taken
Engine Oil Level Warning Light	This warning light indicates that the engine oil level is around the MIN mark (page 6-29).	Add 1 L (0.3 US gal, 0.2 Imp gal) of engine oil (page 6-26).
Low Washer Fluid Level Warning Indication/ Warning Light*	This warning light indicates that little washer fluid remains.	Add washer fluid (page 6-31).
 Door-Ajar/Liftgate-Ajar Warning Indication/ Warning Light	The light turns on if any door/liftgate is not closed securely.	Close the door/liftgate securely.

KEY Warning Light*

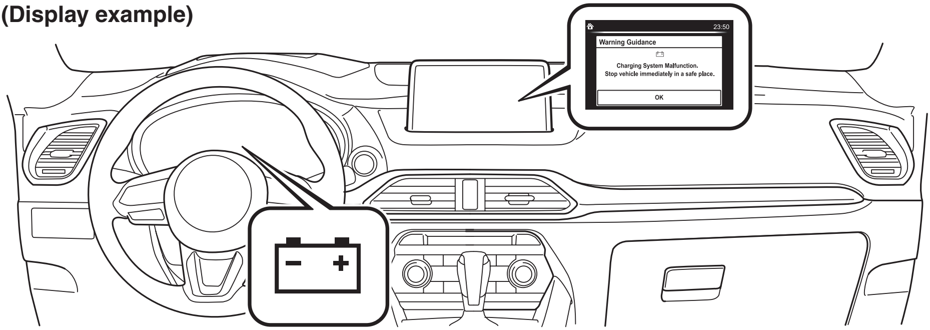
Take the appropriate action and verify that the warning light turns off.

Signal	Cause	Action to be taken
(Red) (Flashing)	The key battery is dead.	Replace the key battery (page 6-40).
	The key is not within the operation range.	Bring the key into the operation range (page 3-7).
	The key is placed in areas inside the cabin where it is difficult for the key to be detected.	
	A key from another manufacturer similar to the key is in the operation range.	Take the key from another manufacturer similar to the key out of the operation range.
	Without the ignition switched off, the key is taken out of the cabin, and then all the doors are closed.	Bring the key back into the cabin.

Message Indicated on Display

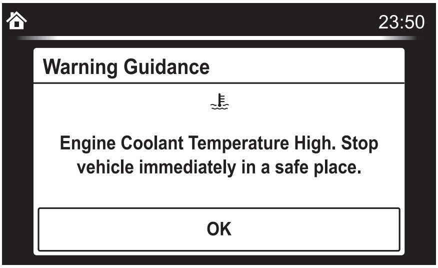
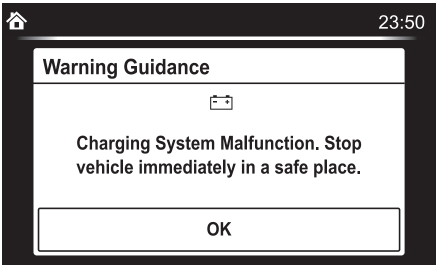
If a message is displayed in the center display, take appropriate action (in a calm manner) according to the displayed message.

(Display example)


23:50
Warning Guidance
Charging System Malfunction.
Stop vehicle immediately in a safe place.
OK

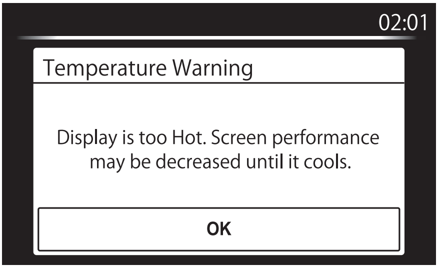
▼Stop Vehicle in Safe Place Immediately

If the following messages are displayed in the center display , a vehicle system may be malfunctioning. Stop the vehicle in a safe place and contact an Authorized Mazda Dealer.

Display	Indicated Condition
 23:50 Warning Guidance Engine Coolant Temperature High. Stop vehicle immediately in a safe place. OK	Displays if the engine coolant temperature has increased excessively.
 23:50 Warning Guidance Charging System Malfunction. Stop vehicle immediately in a safe place. OK	Displays if the charging system has a malfunction.

▼Verify Display Content

Displays in the following cases:

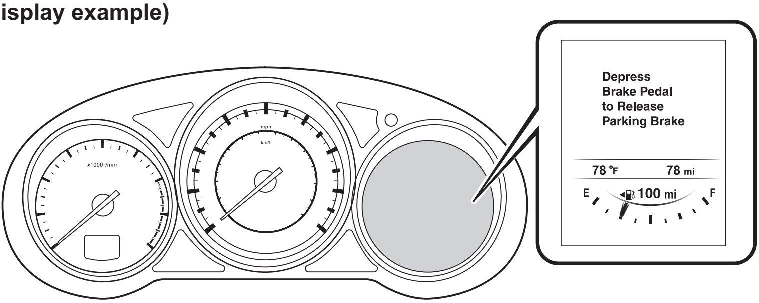
Display	Indicated Condition/Action to be taken
 02:01 Temperature Warning Display is too Hot. Screen performance may be decreased until it cools. OK	The following message is displayed when the temperature around the center display is high. Lowering the temperature in the cabin or the temperature around the center display by avoiding direct sunlight is recommended.

DEP DEALER ePROCESS

Message Indicated in Multi-information Display*

If there is a notification from the vehicle, a message is displayed in the multi-information display. Check the information and take the necessary action.

(Display example)



If the warning light turns on/flashes simultaneously or a symbol is indicated in the display, check the information regarding the warning light or symbol. (page 4-31)

Display	Content	Action to be taken
Move Shift Lever to "P" Position	Indicated when the push button start is pressed while the shift lever is not in the P position.	Shift the shift lever to the P position.
Depress Brake Pedal to Start Engine	Indicated when the push button start is pressed without depressing the brake pedal.	Depress the brake pedal and press the push button start.
Depress Brake Pedal to Release Parking Brake	Indicated when the electric parking brake switch is operated without depressing the brake pedal.	Depress the brake pedal and operate the electric parking brake switch.

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*Some models.

Warning Sound is Activated

▼Lights-On Reminder

The lights-on reminder is operable when the time setting[*1] of the auto headlight off function is off.
If lights are on and the ignition is switched to ACC or off, a continuous beep sound will be heard when the driver's door is opened.

[*1] If the light switch is left on, the auto headlight off function automatically turns off the lights about 30 seconds after switching the ignition off. The time setting can be changed.
Refer to Personalization Features on page 9-11.

NOTE

- *When the ignition is switched to ACC, the "Ignition Not Switched Off (STOP) Warning Beep" (page 7-46) overrides the lights-on reminder.*
- *A personalized function is available to change the sound volume for the lights-on reminder.*
  Refer to Personalization Features on page 9-11.

▼Air Bag/Seat Belt Pretensioner System Warning Beep

If there is a problem with the air bag/seat belt pretensioner systems and the warning light illumination, a warning beep sound will be heard for about 5 seconds every minute.

The air bag and seat belt pretensioner system warning beep sound will continue to be heard for approximately 35 minutes. Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.

⚠ **WARNING**

Do not drive the vehicle with the air bag/seat belt pretensioner system warning beep sounding:

> *Driving the vehicle with the air bag/seat belt pretensioner system warning beep sounding is dangerous. In a collision, the air bags and the seat belt pretensioner system will not deploy and this could result in death or serious injury. Contact an Authorized Mazda Dealer to have the vehicle inspected as soon as possible.*

▼Seat Belt Warning Beep

Except Mexico

If the driver's seat belt is not fastened when the ignition is switched ON, a beep sound will be heard for about 6 seconds. If the driver or the front passenger's seat belt is not fastened and the vehicle is driven at a speed faster than about 20 km/h (12 mph), a beep sound will be heard again for a specified period of time.
Until a seat belt is fastened or a given period of time has elapsed, the beep sound will not stop even if the vehicle speed falls below 20 km/h (12 mph).

NOTE

- *To allow the front passenger occupant classification sensor to function properly, do not place and sit on an additional seat cushion on the front passenger's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.*
- *If a small child is seated on the front passenger's seat, the warning beep may not operate.*

Mexico

If the vehicle speed exceeds about 20 km/h (12 mph) with the driver or front passenger's seat belt unfastened, a warning beep sounds continuously. If the seat belt remains unfastened, the beep sound stops once and then continues for about 90 seconds. The beep stops after the driver or front passenger's seat belt is fastened.
Until a seat belt is fastened or a given period of time has elapsed, the beep sound will not stop even if the vehicle speed falls below 20 km/h (12 mph).

NOTE

- *Placing heavy items on the front passenger's seat may cause the front passenger's seat belt warning function to operate depending on the weight of the item.*
- *To allow the front passenger seat weight sensor to function properly, do not place and sit on an additional seat cushion on the front passenger's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.*
- *If a small child is seated on the front passenger's seat, the warning beep may not operate.*

▼Ignition Not Switched Off (STOP) Warning Beep

If the driver's door is opened with the ignition switched to ACC, a beep will be heard continuously in the cabin to notify the driver that the ignition has not been switched OFF (STOP). Under this condition, the keyless entry system will not operate, the vehicle cannot be locked, and the battery voltage will be depleted.

▼Key Removed from Vehicle Warning Beep

Vehicles with advanced keyless function

If the key is taken out of the vehicle while the ignition is not switched OFF and all the doors are closed, the beep which sounds outside of the vehicle will be heard 6 times, the beep which sounds inside the vehicle will be heard 6 times, and the KEY warning light (red) in the instrument cluster flashes continuously to notify the driver that the ignition has not been switched OFF.

Vehicles without advanced keyless function

If the key is taken out of the vehicle while the ignition is not switched OFF and all the doors are closed, a beep will be heard in the cabin 6 times and the KEY warning light (red) in the instrument cluster turns on continuously to notify the driver that the ignition has not been switched OFF.

NOTE

Because the key utilizes low-intensity radio waves, the Key Removed From Vehicle Warning may activate if the key is carried together with a metal object or it is placed in a poor signal reception area.

▼Request Switch Inoperable Warning Beep (With the advanced keyless function)

If the request switch is pressed with the door open or ajar, or the ignition is not switched OFF with a key being carried, a beep will be heard outside for about 2 seconds to notify the driver that the door or liftgate cannot be locked.

▼Key Left-in-luggage Compartment Warning Beep (With the advanced keyless function)

If the key is left in the luggage compartment with all the doors locked and the liftgate closed, a beep will be heard outside for about 10 seconds to notify the driver that the key is in the luggage compartment. In this case, take out the key by pressing the electric liftgate opener and opening the liftgate. The key taken out of the luggage compartment may not operate because its functions have been temporarily stopped. To restore the key's functions, perform the applicable procedure (page 3-8).

▼Key Left-in-vehicle Warning Beep (With the advanced keyless function)

If all the doors and luggage compartment are locked using another key while the key is left in the cabin, the beep which sounds outside of the vehicle will be heard for about 10 seconds to notify the driver that the key is in the cabin. In this case, take out the key by opening the door. A key taken out of the vehicle using this method may not operate because its functions have been temporarily stopped. To restore the key's functions, perform the applicable procedure (page 3-8).

▼Tire Inflation Pressure Warning Beep*

The warning beep sound will be heard for about 3 seconds when there is any abnormality in tire inflation pressures (page 4-150).

*Some models.

▼Blind Spot Monitoring (BSM) Warning Beep*

Driving forward

The warning beep operates when the turn signal lever is operated to the side where the Blind Spot Monitoring (BSM) warning light is illuminated.

NOTE

A personalized function is available to change the Blind Spot Monitoring (BSM) warning beep sound volume.
Refer to Personalization Features on page 9-11.

Reversing

If a moving object such as a vehicle or two-wheeled vehicle approaches on the left or right from behind your vehicle, the Blind Spot Monitoring (BSM) warning sound is activated.

▼Mazda Radar Cruise Control (MRCC) System Warnings*

The Mazda Radar Cruise Control (MRCC) system warnings notify the driver of system malfunctions and cautions on use when required.
Check based on the beep sound.

Cautions	What to check
The beep sounds 1 time while the Mazda Radar Cruise Control (MRCC) is operating	The vehicle speed is slower than 25 km/h (16 mph) and the Mazda Radar Cruise Control (MRCC) system has been canceled.
The beep sounds continuously while driving	The distance between your vehicle and the vehicle ahead is too close. Verify the safety of the surrounding area and reduce vehicle speed.
While the Mazda Radar Cruise Control (MRCC) is operating, the beep sounds and the multi-information display indicates a problem with the Mazda Radar Cruise Control (MRCC) system.	A malfunction in the system may be indicated. Have your vehicle inspected at an Authorized Mazda Dealer.

*Some models.

▼Lane Departure Warning Sound*

While the system is operating, if the system determines that the vehicle may depart from the lane, it sounds a warning sound.

NOTE

- *The volume of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning sound can be changed.*
  Refer to Personalization Features on page 9-11.
- *The type of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning sound can be changed.*
  Refer to Personalization Features on page 9-11.

▼Collision warning*

If there is a possibility of a collision with a vehicle ahead, a warning sound is activated at the same time as the warning indications are displayed in the instrument cluster or active driving display.

▼Power Steering Warning Buzzer

If the power steering system has a malfunction, the power steering malfunction light turns on or flashes and the buzzer operates at the same time. Refer to Warning Indication/Warning Lights on page 4-32.

▼Electric Parking Brake Warning Beep

The warning buzzer is activated under the following conditions:

- The vehicle is driven with the electric parking brake applied.
- The electric parking brake switch is pulled while the vehicle is driven.

▼Power Liftgate Warning Beep*

If system operation precautions are necessary, the driver is notified by the warning sound.

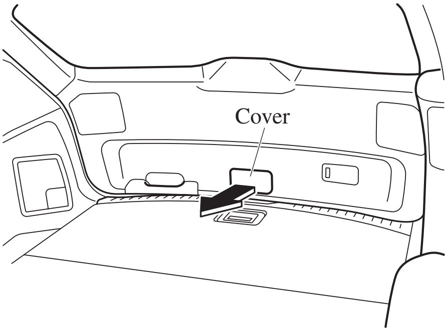
Cautions	What to check
The beep sounds 3 times	The conditions required for the power liftgate to operate have not been met, such as an object being stuck in the liftgate.
The beep sound continues	The vehicle is being driven with the liftgate open. Stop the vehicle and close the liftgate.

*Some models.

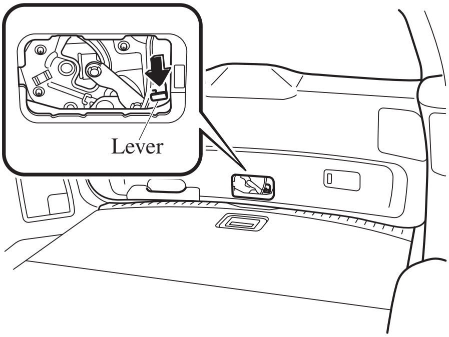
When Liftgate Cannot be Opened

If the vehicle battery is dead or there is a malfunction in the electrical system and the liftgate cannot be opened, perform the following procedure as an emergency measure to open it:

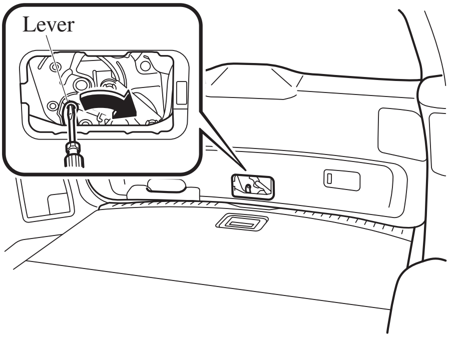
1. Remove the cover on the interior surface of the liftgate with a flathead screwdriver.



2. **(With power liftgate)**
   Push the liftgate while pressing the lever down.



   (Without power liftgate)
   Turn the lever to the right to unlock the liftgate.



After performing this emergency measure, have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.

Active Driving Display Does Not Operate*

If the Active Driving Display does not operate

If the active driving display does not operate, switch the ignition off and then restart the engine. If the active driving display does not operate even with the engine restarted, have the vehicle inspected at an Authorized Mazda Dealer.

*Some models.

MEMO

8 Customer Information and Reporting Safety Defects

Important consumer information including warranties and add-on equipment.

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Customer Assistance (U.S.A.)

Your complete and permanent satisfaction is our business. We are here to serve you. All Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition.
If you have any questions or recommendations for improvement regarding the service of your Mazda vehicle or servicing by Mazda Dealer personnel, we recommend that you take the following steps:

NOTE

If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, contact an Authorized Mazda Dealer. For more information, go to NHTSA website www.safercar.gov (VEHICLE SHOPPERS > Air Bags > Air Bag FAQs > Air Bag Deactivation).

▼STEP 1: Contact Your Mazda Dealer

Discuss the matter with an Authorized Mazda Dealer. This is the quickest and best way to address the issue.

- If your concern has not been resolved by the CUSTOMER RELATIONS, SALES, SERVICE, or PARTS MANAGER, then please contact the GENERAL MANAGER of the dealership or the OWNER.
- If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, go to STEP 2.

▼STEP 2: Contact Mazda North American Operations

If for any reason you feel the need for further assistance after contacting your dealership management or it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, you can reach Mazda North American Operations by one of the following ways.

Log on: at www.MazdaUSA.com

Answers to many questions, including how to locate or contact a local Mazda dealership in the U.S., can be found here.

E-mail: click on “Contact Us” located on the “Inside Mazda” tab, or at the bottom of the page at www.MazdaUSA.com

By phone at: 1 (800) 222-5500

By letter at:
Attn: Customer Assistance
Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618-2922
P.O. Box 19734
Irvine, CA 92623-9734

In order to serve you efficiently and effectively, please help us by providing the following information:

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

If you live outside the U.S.A., please contact your nearest Mazda Distributor.

▼STEP 3: Contact Better Business Bureau (BBB)

Mazda North American Operations realizes that mutual agreement on some issues may not be possible. As a final step to ensure that your concerns are being fairly considered, Mazda North American Operations has agreed to participate in a dispute settlement program administered by the Better Business Bureau (BBB) system, at no cost to you the consumer.

BBB AUTO LINE works with consumers and the manufacturer in an attempt to reach a mutually acceptable resolution of any warranty related concerns. If the BBB is not able to facilitate a settlement they will provide an informal hearing before an arbitrator.

You are required to resort to BBB AUTO LINE before exercising rights or seeking remedies under the Federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. To the extent permitted by the applicable state “Lemon Law”, you are also required to resort to BBB AUTO LINE before exercising any rights or seeking remedies under the “Lemon Law”. If you choose to seek remedies that are not created by the Magnuson-Moss Warranty Act or the applicable state “Lemon Law”, you are not required to first use BBB AUTO LINE.

The whole process normally takes 40 days or less. The arbitration decision is not binding on you or Mazda unless you accept the decision. For more information about BBB AUTO LINE, including current eligibility standards, please call 1-800-955-5100 or visit the BBB website at www.bbb.org/autoline.

Customer Assistance

Being truly committed to customer satisfaction is more than a phrase with Mazda. We hope to satisfy every customer directly, but if there is ever a question about our decision, Mazda believes in providing a fast, fair and free method such as the BBB AUTO LINE to ensure Mazda delivers on our commitment to do the right thing for our customers!

▼California Customers

1. Mazda North American Operations participates in BBB AUTO LINE, a mediation/ arbitration program administered by the Council of Better Business Bureaus [4200 Wilson Boulevard, Arlington, Virginia 22203] through local Better Business Bureaus. BBB AUTO LINE and Mazda have been certified by the Arbitration Certification Program of the California Department of Consumer Affairs.
2. If you have a problem arising under a Mazda written warranty, we encourage you to bring it to our attention. If we are unable to resolve it, you may file a claim with BBB AUTO LINE. Claims must be filed with BBB AUTO LINE within six (6) months after the expiration of the warranty.
3. To file a claim with BBB AUTO LINE, call 1-800-955-5100. There is no charge for the call.
4. In order to file a claim with BBB AUTO LINE, you will have to provide your name and address, the brand name and vehicle identification number (VIN) of your vehicle, and a statement of the nature of your problem or complaint. You will also be asked to provide: the approximate date of your acquisition of the vehicle, the vehicle's current mileage, the approximate date and mileage at the time any problem(s) were first brought to the attention of Mazda or one of our dealers, and a statement of the relief you are seeking.
5. BBB AUTO LINE staff may try to help resolve your dispute through mediation. If mediation is not successful, or if you do not wish to participate in mediation, claims within the program's jurisdiction may be presented to an arbitrator at an informal hearing. The arbitrator's decision should ordinarily be issued within 40 days from the time your complaint is filed; there may be a delay of 7 days if you did not first contact Mazda about your problem, or a delay of up to 30 days if the arbitrator requests an inspection/report by an impartial technical expert or further investigation and report by BBB AUTO LINE.
6. You are required to use BBB AUTO LINE before asserting in court any rights or remedies conferred by California Civil Code Section 1793.22. You are also required to use BBB AUTO LINE before exercising rights or seeking remedies created by Title I of the Magnuson-Moss Warranty Act, 15 U.S.C. sec. 2301 et seq. If you choose to seek redress by pursuing rights and remedies not created by California Civil Code Section 1793.22 or Title I of the Magnuson-Moss Warranty Act, resort to BBB AUTO LINE is not required by those statutes.

DEP DEALER ePROCESS

7. California Civil Code Section 1793.2 (d) requires that, if Mazda or its representative is unable to repair a new motor vehicle to conform to the vehicle's applicable express warranty after a reasonable number of attempts, Mazda may be required to replace or repurchase the vehicle. California Civil Code Section 1793.22 (b) creates a presumption that Mazda has had a reasonable number of attempts to conform the vehicle to its applicable express warranties if, within 18 months from delivery to the buyer or 18,000 miles on the vehicle's odometer, whichever occurs first, one or more of the following occurs:

   - The same nonconformity [a failure to conform to the written warranty that substantially impairs the use, value or safety of the vehicle] results in a condition that is likely to cause death or serious bodily injury if the vehicle is driven **AND** the nonconformity has been subject to repair two or more times by Mazda or its agents **AND** the buyer or lessee has directly notified Mazda of the need for the repair of the nonconformity; OR
   - The same nonconformity has been subject to repair 4 or more times by Mazda or its agents **AND** the buyer has notified Mazda of the need for the repair of the nonconformity; OR
   - The vehicle is out of service by reason of repair of nonconformities by Mazda or its agents for a cumulative total of more than 30 calendar days after delivery of the vehicle to the buyer.

   NOTICE TO Mazda AS REQUIRED ABOVE SHALL BE SENT TO THE FOLLOWING ADDRESS:
   Mazda North American Operations
   7755 Irvine Center Drive
   Irvine, CA 92618
   ATTN: Customer Mediation

8. The following remedies may be sought in BBB AUTO LINE: repairs, reimbursement for money paid to repair a vehicle or other expenses incurred as result of a vehicle nonconformity, repurchase or replacement of your vehicle, and compensation for damages and remedies available under Mazda's written warranty or applicable law.
9. The following remedies may **not** be sought in BBB AUTO LINE: punitive or multiple damages, attorneys' fees, or consequential damages other than as provided in California Civil Code Section 1794 (a) and (b).
10. You may reject the decision issued by a BBB AUTO LINE arbitrator. If you reject the decision, you will be free to pursue further legal action. The arbitrator's decision and any findings will be admissible in a court action.
11. If you accept the arbitrator's decision, Mazda will be bound by the decision, and will comply with the decision within a reasonable time not to exceed 30 days after we receive notice of your acceptance of the decision.
12. Please call BBB AUTO LINE at 1-800-955-5100 for further details about the program.

Customer Assistance (Canada)

▼Satisfaction Review Process

Your complete and permanent satisfaction is of primary concern to Mazda. All Authorized Mazda Dealers have both the knowledge and tools to keep your Mazda in top condition.
In our experience, any questions, problems, or complaints regarding the operation of your Mazda or any other general service transactions are most effectively resolved by your dealer.
If the cause of your dissatisfaction cannot adequately be addressed by normal dealership procedures, we recommend that you take the following steps:

▼STEP 1: Contact the Mazda Dealer

Discuss the matter with a member of dealership management. If the Service Manager has already reviewed your concerns, contact the owner of the dealership or its General Manager.

▼STEP 2: Contact the Mazda Regional Office

If you feel that you still require assistance, ask the dealer Service Manager to arrange for you to meet the local Mazda Service Representative. If more expedient, contact Mazda Canada Inc. Regional Office nearest you for such arrangements. Regional Office address and phone numbers are shown (page 8-8).

▼STEP 3: Contact the Mazda Customer Relations Department

If still not substantially satisfied, contact the Customer Relations Department, Mazda Canada Inc., 55 Vogell Road, Richmond Hill, Ontario, L4B 3K5 Canada TEL: 1 (800) 263-4680.
Provide the Department with the following information:

1. Your name, address and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (VIN). Refer to the Vehicle Identification Number on page 9-2 for the location of the VIN.
4. Purchase date
5. Present odometer reading
6. Your dealer's name and location
7. The nature of your problem and/or cause of dissatisfaction

The Department, in cooperation with the local Mazda Service Representative, will review the case to determine if everything possible has been done to ensure your satisfaction.

Please recognize that the resolution of service problems in most cases requires the use of your Mazda dealer's service facilities, personnel and equipment. We urge you to follow the above three steps in sequence for most effective results.

▼Mediation/Arbitration Program

Occasionally a customer concern cannot be resolved through Mazda's Customer Satisfaction Program. If after exhausting the procedures in this manual your concern is still not resolved, you have another option.

Mazda Canada Inc. participates in an arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP). CAMVAP will advise you about how your concern may be reviewed and resolved by an independent third party through binding arbitration.

Your complete satisfaction is the goal of Mazda Canada Inc. and our dealers.
Mazda's participation in CAMVAP makes a valuable contribution to our achieving that goal. There is no charge for using CAMVAP. CAMVAP results are fast, fair and final as the award is binding on both you and Mazda Canada Inc.

▼Canadian Motor Vehicle Arbitration Plan (CAMVAP)

If a specific item of concern arises, where a solution cannot be reached between an owner, Mazda, and/or one of its dealers (that all parties cannot agree upon), the owner may wish to use the services offered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

CAMVAP uses the services of Provincial Administrators to assist consumers in scheduling and preparing for their arbitration hearings. However, before you can proceed with CAMVAP you must follow your Mazda dispute resolution process as outlined previously.

CAMVAP is fully implemented in all provinces and territories.
Consumers wishing to obtain further information about the Program should contact the Provincial Administrator at 1 (800) 207-0685, or by contacting the Canadian Motor Vehicle Arbitration Plan Office at:

Canadian Motor Vehicle Arbitration Plan
235 Yorkland Boulevard, suite 300
North York, Ontario
M2J 4Y8
http://camvap.ca

Customer Assistance

Provincial Administrators may be reached locally:

Province/Territory	CAMVAP Number
British Columbia & Yukon Territories	1 (800) 207-0685
Alberta & Northwest Territories	1 (800) 207-0685
Saskatchewan	1 (800) 207-0685
Manitoba	1 (800) 207-0685
Ontario	1 (800) 207-0685
Atlantic Canada	1 (800) 207-0685
Quebec	1 (800) 207-0685

▼Regional Offices

REGIONAL OFFICES	COVERING AREAS
MAZDA CANADA INC. WESTERN REGION 5011 275 STREET LANGLEY, BRITISH COLUMBIA V4W 0A8 (778) 369-2100 1 (800) 663-0908	ALBERTA, BRITISH COLUMBIA, MANITOBA, SASKATCHEWAN, YUKON
MAZDA CANADA INC. CENTRAL REGION 55 VOGELL ROAD, RICHMOND HILL, ONTARIO, L4B 3K5 1 (800) 263-4680	ONTARIO, NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, NEWFOUNDLAND
MAZDA CANADA INC. QUEBEC REGION 6111 ROUTE TRANSCANADIENNE POINTE CLAIRE, QUEBEC H9R 5A5 (514) 694-6390	QUEBEC

Customer Assistance (Puerto Rico)

Your complete and permanent satisfaction is our business. That is why all Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition.
If you have any questions or recommendations for improvement regarding the service of your Mazda vehicle or servicing by Mazda Dealer personnel, we recommend that you take the following steps:

▼STEP 1

Discuss the matter with an Authorized Mazda Dealer. This is the quickest and best way to address the issue. If your concern has not been resolved by the CUSTOMER RELATIONS, SALES, SERVICE, or PARTS MANAGER, then please contact the GENERAL MANAGER of the dealership or the OWNER.

▼STEP 2

If, after following STEP 1, you feel the need for further assistance, please contact your area's Mazda representative.
Refer to Importer/Distributor on page 8-12.

Please help us by providing the following information:

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

Customer Assistance (Mexico)

Your complete and permanent satisfaction is our business. We are here to serve you. All Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition.
If you have any questions or recommendations for improvement regarding the service of your Mazda vehicle or servicing by Mazda Dealer personnel, we recommend that you take the following steps:

▼Contact Your Mazda Dealer

Discuss the matter with an Authorized Mazda Dealer. This is the quickest and best way to address the issue.

- If your concern has not been resolved by the CUSTOMER RELATIONS, SALES, SERVICE, or PARTS MANAGER, then please contact the GENERAL MANAGER of the dealership or the OWNER.
- If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical condition in accordance with a certified physician you must contact your dealership in order to avoid the potential loss of the warranty of your vehicle which may occur if some third party is hired by the customer to make any modifications to this system.

Log on: at www.mazdamexico.com.mx

Answers to many questions, including how to locate or contact a local Mazda dealership in Mexico, can be found here.

E-mail: click on “Contactanos” at the top of the page at www.mazdamexico.com.mx

By phone at: 01 800 01 MAZDA (62932)

By letter at:
Attn: Customer Assistance
Mazda Motor de Mexico
Mario Pani #150, PB Col. Lomas de Santa Fe
Mexico, D.F. C.P. 05300
Del. Cuajimalpa de Morelos
Tel: Customer Assistance
01 800 01 MAZDA(62932).

In order to serve you efficiently and effectively, please help us by providing the following information:

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

Mazda Importer/Distributors

Importer/Distributor

▼U.S.A.

Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618-2922 U.S.A.
P.O. Box 19734
Irvine, CA 92623-9734 U.S.A.
TEL: 1 (800) 222-5500 (in U.S.A.)
(949) 727-1990 (outside U.S.A.)

▼CANADA

Mazda Canada Inc.
55 Vogell Road, Richmond Hill,
Ontario, L4B 3K5 Canada
TEL: 1 (800) 263-4680 (in Canada)
(905) 787-7000 (outside Canada)

▼PUERTO RICO/U.S. Virgin Island

International Automotive Distributor Group, LLC. (Mazda de Puerto Rico)
P.O. Box 191850, San Juan, Puerto Rico
00919-1850
TEL: (787) 641-1777

▼MEXICO

Mazda Motor de Mexico
Mario Pani # 150, PB Col. Lomas de
Santa Fe Mexico, D.F. C.P. 05300 Del.
Cuajimalpa
TEL: Center of Attention to Clients:
01 (800) 016 2932. in Mexico

▼GUAM

Triple J Motors
157 South Marine Drive, Tamuning,
GUAM 96911 USA
P.O. Box 6066 Tamuning, Guam 96931
TEL: (671) 649-6555

▼SAIPAN

Pacific International Marianas, Inc.
(d.b.a. Midway Motors)
P.O. Box 887 Saipan, MP 96950
TEL: (670) 234-7524

Triple J Saipan, Inc.
(d.b.a. Triple J Motors)
P.O. Box 500487 Saipan, MP 96950-0487
TEL: (670) 234-7133/3051

▼AMERICAN SAMOA

Polynesia Motors, Inc.
P.O. Box 1120, Pago Pago, American
Samoa 96799
TEL: (684) 699-9347

Reporting Safety Defects (U.S.A.)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Mazda Motor Corporation (Your Mazda Importer/Distributor).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Mazda Motor Corporation (Your Mazda Importer/Distributor).

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY:1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE., Washington, DC, 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

NOTE

If you live in the U.S.A., all correspondence to Mazda Motor Corporation should be forwarded to:

Mazda North American Operations
7755 Irvine Center Drive
Irvine, California 92618-2922
or
P.O. Box 19734
Irvine, CA 92623-9734
Customer Experience Center or toll free at 1 (800) 222-5500

If you live outside of the U.S.A., please contact the nearest Mazda Distributor shown (page 8-12) in this manual.

Reporting Safety Defects (Canada)

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls, may telephone the toll free hotline 1-800-333-0510, or contact Transport Canada by mail at: Transport Canada, ASFAD, Place de Ville Tower C, 330 Sparks Street, Ottawa ON K1A 0N5.

For additional road safety information, please visit the Road Safety website at: http://www.tc.gc.ca/roadsafety/menu.htm

Warranties for Your Mazda

- New Vehicle Limited Warranty
- Powertrain Limited Warranty
- Safety Restraint System Limited Warranty
- Anti-perforation Limited Warranty
- Federal Emission Control Warranty/California Emission Control Warranty
  - Emission Defect Warranty
  - Emission Performance Warranty
- Emission Control Warranty
- Replacement Parts and Accessories Limited Warranty
- Tire Warranty

NOTE

Warranty information varies depending on the country. Refer to the Warranty Booklet for detailed warranty information.

Outside the United States/Canada

Government regulations in the United States/Canada require that automobiles meet specific emission regulations and safety standards. Therefore, vehicles built for use in the United States/Canada may differ from those sold in other countries.

The differences may make it difficult or even impossible for your vehicle to receive satisfactory servicing in other countries. We strongly recommend that you NOT take your Mazda outside the United States/Canada.

United States
However, in the event that you are moving to Canada permanently, Mazda vehicles built for use in the United States could be eligible for exportation to Canada with specific vehicle modifications to comply with the Canadian Motor Vehicle Safety Standards (CMVSS).

Canada
However, in the event that you are moving to the United States permanently, Mazda vehicles built for use in Canada could be eligible for exportation to the United States with specific vehicle modifications to comply with the United States Federal Motor Vehicle Safety Standards (FMVSS).

NOTE

The above is applicable for a permanent import/export situation and not related to travelers on vacation.

You may have the following problems if you do take your vehicle outside of the United States/Canada:

- Recommended fuel may be unavailable. Any kind of leaded fuel or low-octane fuel will affect vehicle performance and damage the emission controls and engine.
- Proper repair facilities, tools, testing equipment, and replacement parts may not be available.

Please refer to your Manufacturer's Warranty Booklet for more information.

Registering Your Vehicle in A Foreign Country (Except United States and Canada)

Registering your vehicle in a foreign country may be problematic depending on whether it meets the specific emission and safety standards of the country in which the vehicle will be driven. Consequently, your vehicle may require modifications at personal expense in order to meet the regulations.
In addition, you should be aware of the following issues:
Satisfactory vehicle servicing may be difficult or impossible in another country.

The fuel specified for your vehicle may be unavailable.

Parts, servicing techniques, and tools necessary to maintain and repair your vehicle may be unavailable.

There might not be an Authorized Mazda Dealer in the country you plan to take your vehicle.

The Mazda warranty is valid only in certain countries.

Add-On Non-Genuine Parts and Accessories

Non-genuine parts and accessories for Mazda vehicles can be found in stores.
These may fit your vehicle, but they are not approved by Mazda for use with Mazda vehicles. When you install non-genuine parts or accessories, they could affect your vehicle's performance or safety systems; the Mazda warranty doesn't cover this. Before you install any non-genuine parts or accessories, consult an Authorized Mazda Dealer.

⚠ WARNING

Always consult an Authorized Mazda Dealer before you install non-genuine parts or accessories:

> *Improperly designed parts or accessories could seriously affect your vehicle's performance or safety systems. This could cause you to have an accident or increase your chances of injuries in an accident.*

Be very careful in choosing and installing add-on electrical equipment, such as mobile telephones, two-way radios, stereo systems, and car alarm systems:

> *Incorrectly choosing or installing improper add-on equipment or choosing an improper installer is dangerous. Essential systems could be damaged, causing engine stalling, air-bag (SRS) activation, ABS/TCS/DSC inactivation, or a fire in the vehicle.*

Mazda assumes no responsibility for death, injury, or expenses that may result from the installation of add-on non-genuine parts or accessories.

Cell Phones Warning

⚠ WARNING

Please comply with the legal regulations concerning the use of communication equipment in vehicles in your country:

> *Use of any electrical devices such as cell phones, computers, portable radios, vehicle navigation or other devices by the driver while the vehicle is moving is dangerous. Dialing a number on a cell phone while driving also ties-up the driver's hands. Use of these devices will cause the driver to be distracted and could lead to a serious accident. If a passenger is unable to use the device, pull off the right-of-way to a safe area before use. If use of a cell phone is necessary despite this warning, use a hands-free system to at least leave the hands free to drive the vehicle. Never use a cell phone or other electrical devices while the vehicle is moving and, instead, concentrate on the full-time job of driving.*

Event Data Recorder (U.S.A. and Canada)

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.
NOTE:
EDR data are recorded by your vehicle only if a non-trivial crash or near crash-like situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.
To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

Mazda will not disclose any of the data recorded in an EDR to a third party unless:

- A written agreement from the vehicle owner or the lessee is obtained
- Officially requested by the police or other law enforcement authorities
- Used as a defense for Mazda in a law suit, claim, or arbitration
- Ordered by a judge or court

However, if necessary Mazda will:

- Use the data for research on Mazda vehicle performance, including safety.
- Disclose the data or the summarized data to a third party for research purposes without disclosing vehicle or owner identification information.

Recording of Vehicle Data

This vehicle is equipped with a computer which records the following main vehicle data related to vehicle controls, operation, and other driving conditions.

Recorded data

- Vehicle conditions such as engine speed and vehicle speed
- Driving operation conditions such as accelerator and brake pedals, and information related to the environmental circumstances while the vehicle is driven
- Malfunction diagnosis information from each on-vehicle computer
- Information related to controls of other on-vehicle computers

NOTE

The recorded data may vary depending on the vehicle grade and optional equipment. Voice and images are not recorded.

Data handling

Mazda and its subcontracting parties may obtain and use the recorded data for vehicle malfunction diagnosis, research and development, and quality improvement.
Mazda will not disclose or provide any of the obtained data to a third party unless:

- An agreement from the vehicle owner (agreements from lessor and lessee for leased vehicle) is obtained
- Officially requested by the police or other law enforcement authorities
- For statistical processing by a research institution after processing the data so that identification of the owner or the vehicle is impossible

Uniform Tire Quality Grading System (UTQGS)

This information relates to the tire grading system developed by the U.S. National Highway Traffic Safety Administration for grading tires by tread wear, traction, and temperature performance.

▼Tread Wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.
For example, a tire graded 150 would wear one-and-a-half times as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm because of variations in driving habits, service practices and differences in road characteristics and climate.

▼Traction-AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C. These grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

⚠ WARNING

The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include acceleration cornering (turning), hydroplaning, or peak traction characteristics.

▼Temperature-A, B, C

The temperature grades A (the highest), B, and C, represent the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.
Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperatures can lead to sudden tire failure.

Grade C corresponds to a level of performance which all passenger vehicle tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Uniform Tire Quality Grading System (UTQGS)

WARNING

Keep your vehicle's tires properly inflated and not overloaded:

Driving with improperly inflated or overloaded tires is dangerous. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure. The temperature grade for this tire is established for a tire that is properly inflated and not overloaded.

These grades will be added to the sidewalls of passenger vehicle tires over the next several years according to a schedule established by the NHTSA and the tire manufacturers.

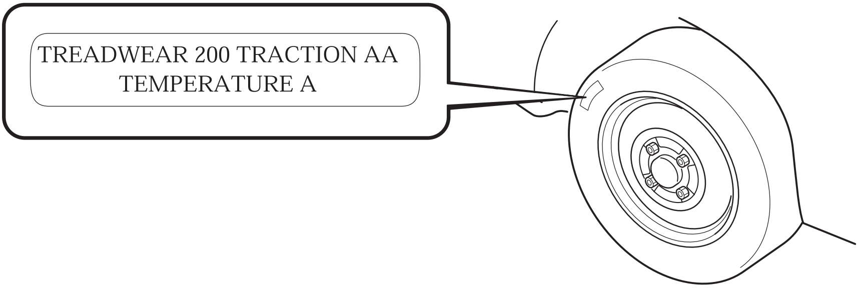
The grade of tires available as standard or optional equipment on Mazda vehicles may vary with respect to grade.

ALL PASSENGER VEHICLE TIRES MUST CONFORM TO THESE GRADES AND TO ALL OTHER FEDERAL TIRE-SAFETY REQUIREMENTS.

▼UNIFORM TIRE QUALITY GRADING

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.
For example:
TREADWEAR 200 TRACTION AA TEMPERATURE A

UTQGS MARK (example)

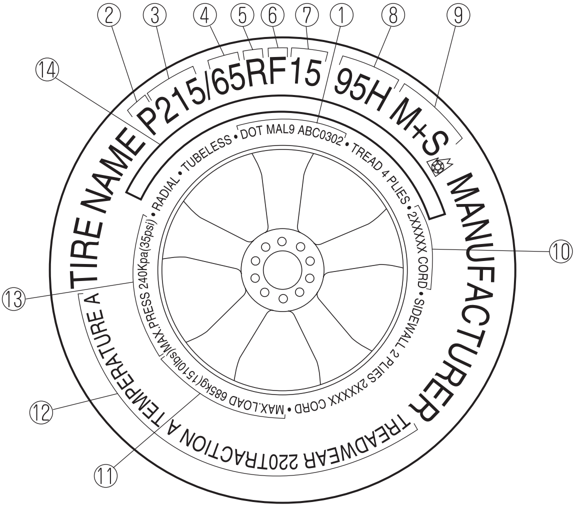


Tire Labeling

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a tire identification number for safety standard certification and in case of a recall.

▼Information on Passenger Vehicle Tires

Please refer to the sample below.


②
③
④
⑤
⑥
⑦
①
⑧
⑨
⑭
P215/65RF15
95H M+S
TIRE NAME
MANUFACTURER
RADIAL • TUBELESS • DOT MAL9 ABC0302 • TREAD 4 PLIES • 2XXXXX CORD • SIDEWALL 2 PLIES 2XXXXX CORD • MAX.LOAD 685kg(1510lbs)MAX.PRESS 240Kpa(35psi)
⑩
⑬
TEMPERATURE A
⑫
TREADWEAR 220TRACTION A
⑪

1. TIN: U.S. DOT tire identification number
2. Passenger car tire
3. Nominal width of tire in millimeters
4. Ratio of height to width (aspect ratio)
5. Radial
6. Run-flat tire
7. Rim diameter code
8. Load index & speed symbol
9. Severe snow conditions
10. Tire ply composition and materials used
11. Max. load rating
12. Tread wear, traction and temperature grades
13. Max. permissible inflation pressure
14. SAFETY WARNING

P215/65R15 95H is an example of a tire size and load index rating. Here is an explanation of the various components of that tire size and load index rating. Note that the tire size and load index rating may be different from the example.

DEP DEALER ePROCESS

P

Indicates a tire that may be installed on cars, SUVs, minivans and light trucks as designated by the Tire and Rim Association (T&RA).

NOTE

If your tire size does not begin with a letter this may mean it is designated by either ETRTO (European Tire and Rim Technical Organization) or JATMA (Japan Tire Manufacturing Association).

215

“215” is the nominal width of the tire in millimeters. This three-digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

65

“65” is the aspect ratio. This two-digit number indicates the tire's ratio of height to width.

R

“R” is the tire construction symbol. R indicates “Radial ply construction”.

15

“15” is the wheel rim diameter in inches.

95

“95” is the Load Index. This two-or three-digit number indicates how much weight each tire can support.

H

“H” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.

Letter Rating	Speed Rating
Q	99 mph
R	106 mph
S	112 mph
T	118 mph
U	124 mph
H	130 mph
V	149 mph
W	168[*] mph
Y	186[*] mph

[*] For tires with a maximum speed capability over 149 mph, tire manufacturers sometimes use the letters ZR. For tires with a maximum speed capability over 186 mph, tire manufacturers always use the letters ZR.

M+S or M/S: Mud and Snow

AT: All Terrain.
AS: All Season. The “M+S” or “M/S” indicates that the tire has some functional use in mud and snow.

U.S. DOT Tire Identification Number (TIN)

This begins with the letters “DOT” which indicates the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was manufactured. For example, the numbers 457 means the 45st week of 1997. After 2000 the numbers go to four digits. For example, the number 2102 means the 21th week of 2002. The other numbers are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.

Tire Ply Composition and Materials Used

The number of plies indicates the number of layers of rubber-coated fabric in the tire.
In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the tire materials, which include steel, nylon, polyester, and other.

Maximum Load Rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire.

Maximum Permissible Inflation Pressure

This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

Tread Wear, Traction and Temperature Grades

Tread wear: The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100.
Traction: The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.
Temperature: The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Snow Tires

In some heavy snow areas, local governments may require true snow tires, those with very deeply cut tread. These tires should only be used in pairs or placed on all four wheels. Make sure you purchase snow tires that are the same size and construction type as the other tires on your vehicle.

SAFETY WARNING

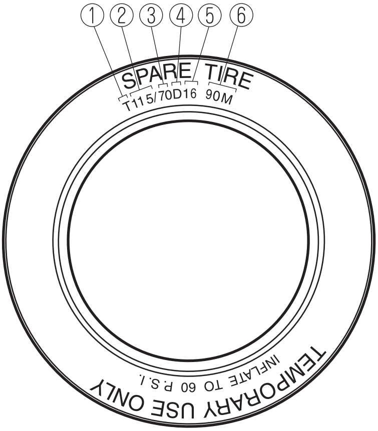
The following safety warning appears on the tire's sidewall.
SERIOUS INJURY MAY RESULT FROM:

- EXPLOSION OF TIRE/RIM ASSEMBLY DUE TO IMPROPER MOUNTING-MATCH TIRE DIAMETER TO RIM DIAMETER; NEVER EXCEED 40 psi (275 kPa) TO SEAT BEADS-ONLY SPECIALLY TRAINED PERSONS SHOULD MOUNT TIRES.
- TIRE FAILURE DUE TO UNDER-INFLATION/OVERLOADING/DAMAGE-FOLLOW OWNER'S MANUAL AND PLACARD IN VEHICLE-FREQUENTLY CHECK INFLATION PRESSURE AND INSPECT FOR DAMAGE.

Tire Information (U.S.A.)

▼Information on Temporary Tires

Please refer to the sample below.



1. Temporary tires
2. Nominal width of tire in millimeters
3. Ratio of height to width (aspect ratio)
4. Diagonal
5. Rim diameter code
6. Load index & speed symbol

T115/70D16 90M is an example of a tire size and load index rating. Here is an explanation of the various components of that tire size and load index rating. Note that the tire size and load index rating may be different from the example.

T

Indicates a tire that may be installed on cars, SUVs, minivans and light trucks as designated by the Tire and Rim Association (T&RA).

115

“115” is the nominal width of the tire in millimeters. This three-digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

70

“70” is the aspect ratio. This two-digit number indicates the tire's ratio of height to width.

D

“D” is the tire construction symbol. D indicates “diagonal ply construction”.

16

“16” is the wheel rim diameter in inches.

90

“90” is the Load Index. This two-or three-digit number indicates how much weight each tire can support.

M

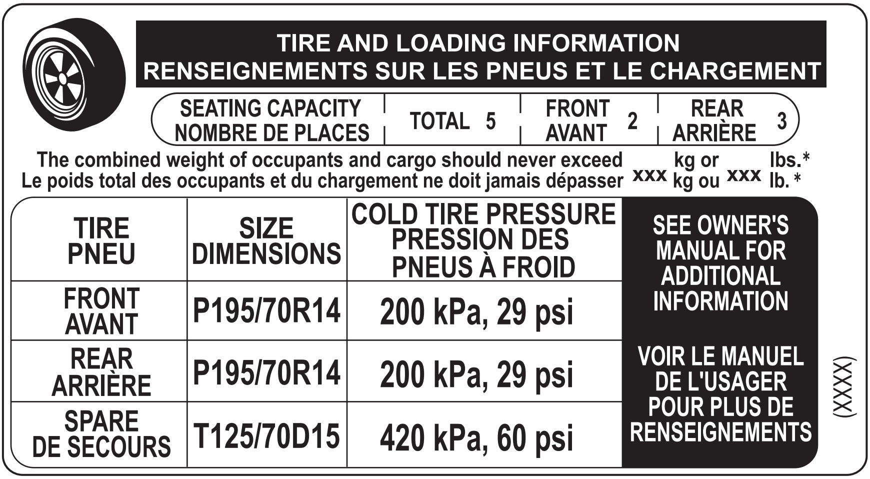
“M” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.

Letter Rating	Speed Rating
M	81 mph

Location of the Tire Label (Placard)

You will find the tire label containing tire inflation pressure by tire size and other important information on the driver's side B-pillar or on the edge of the driver's door frame.

SAMPLE



TIRE AND LOADING INFORMATION
RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY NOMBRE DE PLACES	TOTAL 5	FRONT AVANT 2	REAR ARRIÈRE 3

The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.*
Le poids total des occupants et du chargement ne doit jamais dépasser xxx kg ou xxx lb.*

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS
FRONT AVANT	P195/70R14	200 kPa, 29 psi	
REAR ARRIÈRE	P195/70R14	200 kPa, 29 psi	
SPARE DE SECOURS	T125/70D15	420 kPa, 60 psi	

(XXXX)

▼Recommended Tire Inflation Pressure

On the tire label you will find the recommended tire inflation pressure in both kPa and psi for the tires installed as original equipment on the vehicle. It is very important that the inflation pressure of the tires on your vehicle is maintained at the recommended pressure. You should check the tire pressure regularly to insure that the proper inflation pressure is maintained.
Refer to Tires on page 9-9.

NOTE

Tire pressures listed on the vehicle placard or tire information label indicate the recommended cold tire inflation pressure, measured when the tires are cold, after the vehicle has been parked for at least 3 hours. As you drive, the temperature in the tire warms up, increasing the tire pressure.

⚠ WARNING

Always check the tire inflation pressures on a regular basis according to the recommended tire inflation pressure on the tire label and in conjunction with the information in this owner's manual:

> *Driving your vehicle with under-inflated tires is dangerous.*
> *Under-inflation is the most common cause of failures in any kind of tire and may result in severe cracking, tread separation or "blowout", with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It results in unnecessary tire stress, irregular wear, loss of control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!*
> *It is impossible to determine whether or not tires are properly inflated just by looking at them.*

▼Checking Tire Pressure

1. When you check the air pressure, make sure the tires are cold —meaning they are not hot from driving even a mile.
2. Remove the cap from the valve on one tire.
3. Firmly press a tire gauge onto the valve.
4. Add air to achieve recommended air pressure.
5. If you overfill the tire, release air by pushing on the metal stem in the center of the valve. Then recheck the pressure with your tire gauge.
6. Replace the valve cap.
7. Repeat with each tire, including the spare.

NOTE

Some spare tires require higher inflation pressure.

8. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.
9. Check the sidewalls to make sure there are no gouges, cuts, bulges, cracks or other irregularities.

▼Glossary of Terms

Tire Placard: A label indicating the OE tire sizes, recommended inflation pressure, and the maximum weight the vehicle can carry.
Tire Identification Number (TIN): A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size, and date of manufacture.
Inflation Pressure: A measure of the amount of air in a tire.
kPa: Kilopascal, the metric unit for air pressure.
psi: Pounds per square inch, the English unit for air pressure.
B-pillar: The structural member at the side of the vehicle behind the front door.
Original Equipment (OE): Describes components originally equipped on the vehicle.
Vehicle Load Limit: The maximum value of the combination weight of occupants and cargo.
Bead Area of the Tire: Area of the tire next to the rim.
Sidewall Area of the Tire: Area between the bead area and the tread.
Tread Area of the Tire: Area on the perimeter of the tire that contacts the road when it's mounted on the vehicle.

Seating capacity means the total allowable number of vehicle occupants. Seating capacity is described on the tire label.

Production options weight is the combination weight of installed regular production options weighing over 2.3 kilograms in excess of the standard items which they replace, and not previously considered in the curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.

Rim is the metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

Tire Maintenance

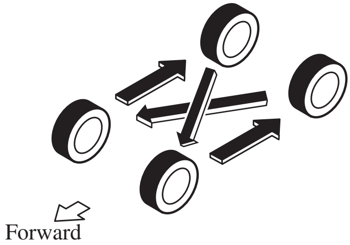
Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Here are some important maintenance points:

▼Tire Inflation Pressure

Inspect all tire pressure monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, top handling, and minimum tire wear. Use the pressures specified on the vehicle tire information placard or tire label for optimum service.

▼Tire Rotation

To equalize tread wear, rotate the tires every 12,000 km (7,500 miles) at the latest or sooner if irregular wear develops. Mazda recommends to rotate every 8,000 km (5,000 miles) to help increase tire life and distribute wear more evenly.



Do not include (TEMPORARY USE ONLY)
spare tire in rotation.

Inspect the tires for uneven wear and damage. Abnormal wear is usually caused by one or a combination of the following:

- Incorrect tire pressure
- Improper wheel alignment
- Out-of-balance wheel
- Severe braking

After rotation, inflate all tire pressures to specification (page 9-9) and inspect the lug nuts for tightness.

(With tire pressure monitoring system)

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operate normally.

Refer to Tire Pressure Monitoring System Initialization on page 4-153.

CAUTION

Rotate unidirectional tires and radial tires that have an asymmetrical tread pattern or studs only from front to rear, not from side to side. Tire performance will be weakened if rotated from side to side.

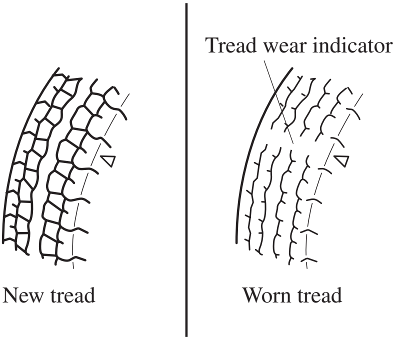
▼Replacing a Tire

⚠ WARNING

Always use tires that are in good condition:

> *Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident.*

If a tire wears evenly, a wear indicator will appear as a solid band across the tread. Replace the tire when this happens.



You should replace the tire before the band crosses the entire tread.

(With tire pressure monitoring system)

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operate normally.

Refer to Tire Pressure Monitoring System Initialization on page 4-153.

NOTE

Tires degrade over time, even when they are not being used on the road. It is recommended that tires generally be replaced when they are 6 years or older. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. You should replace the spare tire when you replace the other road tires due to the aging of the spare tire. The period in which the tire was manufactured (both week and year) is indicated by a 4-digit number. Refer to Tire Labeling on page 8-24.

▼Safety Practices

The way you drive has a great deal to do with your tire mileage and safety. So cultivate good driving habits for your own benefit.

- Observe posted speed limits and drive at speeds that are safe for the existing weather conditions
- Avoid fast starts, stops and turns
- Avoid potholes and objects on the road
- Do not run over curbs or hit the tire against the curb when parking

⚠ CAUTION

> *If you feel a sudden vibration or ride disturbance while driving or you suspect your tire or vehicle has been damaged, immediately reduce your speed. Drive with caution until you can safely pull off the road. Stop and inspect the tire for damage. If the tire is under-inflated or damaged, deflate it, remove the tire and rim and replace it with your spare tire. If you cannot detect a cause, have the vehicle towed to the nearest vehicle or tire dealer to have the vehicle inspected.*

Vehicle Loading

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, with or without a trailer, from the vehicle's Safety Certification Label and Tire and Load Information Label:

⚠ WARNING

Overloaded Vehicle:

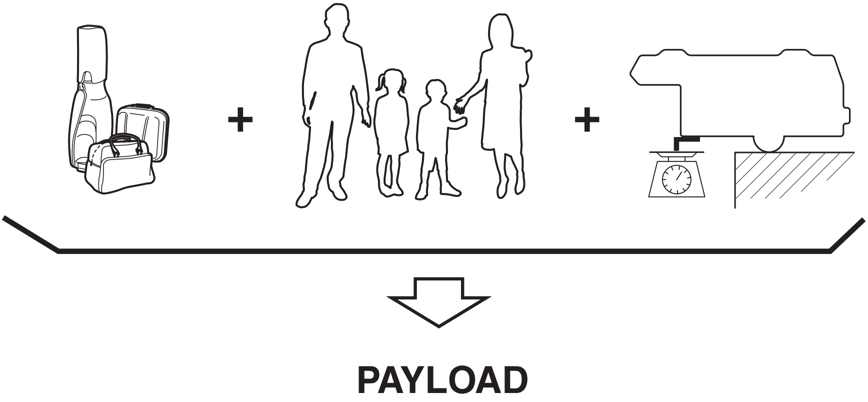
Overloading a vehicle is dangerous. The results of overloading can have serious consequences in terms of passenger safety. Too much weight on a vehicle's suspension system can cause spring or shock absorber failure, brake failure, handling or steering problems, irregular tire wear, tire failure or other damage.

Overloading makes a vehicle harder to drive and control. It also increases the distance required for stopping. In cases of serious overloading, brakes can fail completely, particularly on steep grades. The load a tire will carry safely is a combination of the size of the tire, its load range, and corresponding inflation pressure.

Never overload the vehicle and always observe the vehicle's weight ratings from the vehicle's Safety Certification and Tire and Load Information labels.

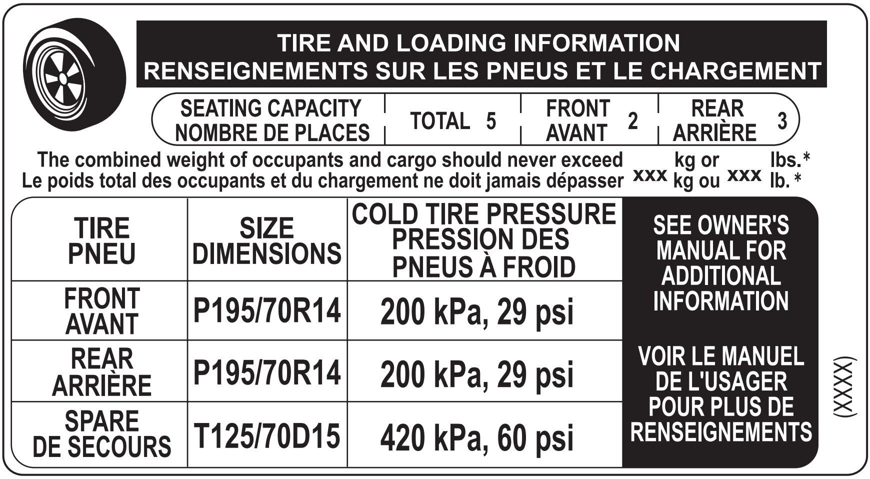
Base Curb Weight is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle Curb Weight is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.



Payload is the combination weight of cargo and passengers that the vehicle is designed to carry. The maximum payload for your vehicle can be found on the Tire and Load Information label on the driver's door frame or door pillar. Look for “THE COMBINATION WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED XXX kg or XXX lbs” for your maximum payload. The payload listed on the tire label is the maximum payload for the vehicle as built by the assembly plant. If any aftermarket or dealer installed equipment has been installed on the vehicle, the weight of the equipment must be subtracted from the payload listed on the tire label in order to be accurate.

SAMPLE



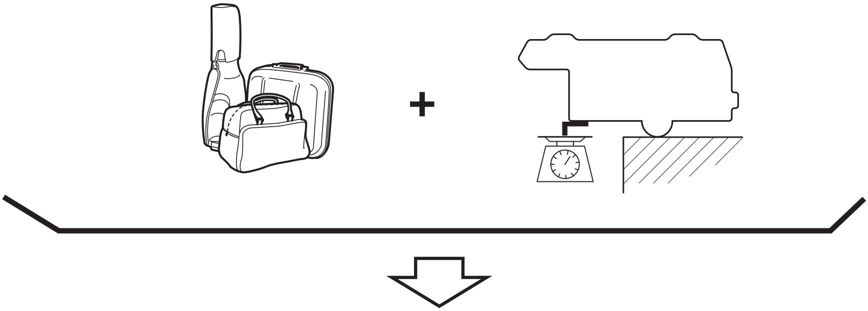
TIRE AND LOADING INFORMATION
RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY NOMBRE DE PLACES	TOTAL 5	FRONT AVANT 2	REAR ARRIÈRE 3

The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.*
Le poids total des occupants et du chargement ne doit jamais dépasser XXX kg ou XXX lb. *

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS
FRONT AVANT	P195/70R14	200 kPa, 29 psi	
REAR ARRIÈRE	P195/70R14	200 kPa, 29 psi	
SPARE DE SECOURS	T125/70D15	420 kPa, 60 psi	

(XXXX)



CARGO

Tire Information (U.S.A.)

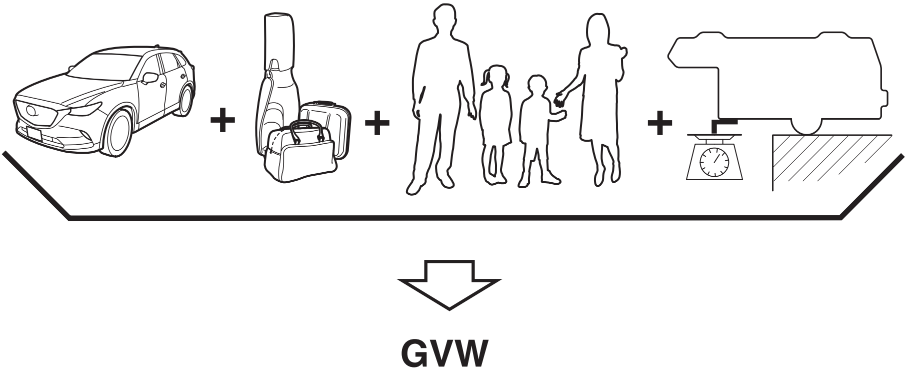
Cargo Weight includes all weight added to the Base Curb Weight, including cargo and optional equipment. When towing, trailer tongue load or king pin weight is also part of cargo weight.

The cargo weight limit decreases depending on the number of vehicle occupants. The cargo weight limit can be calculated by subtracting the total weight of the vehicle occupants from the “combination weight of occupants and cargo should never exceed” value on the tire label.

Examples: Based on a single occupant weight of 68 kg (150 lbs), and a value of 385 kg (849 lbs) for the “combination weight of occupants and cargo should never exceed”:
The cargo weight limit with one occupant is 385 kg (849 lbs) - 68 kg (150 lbs) = 317 kg (699 lbs)
The cargo weight limit with two occupants is 385 kg (849 lbs) - (68 × 2) kg ((150 × 2) lbs) = 249 kg (549 lbs)
If the weight of the occupant increases, the cargo weight limit decreases by that much.

GAW (Gross Axle Weight) is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

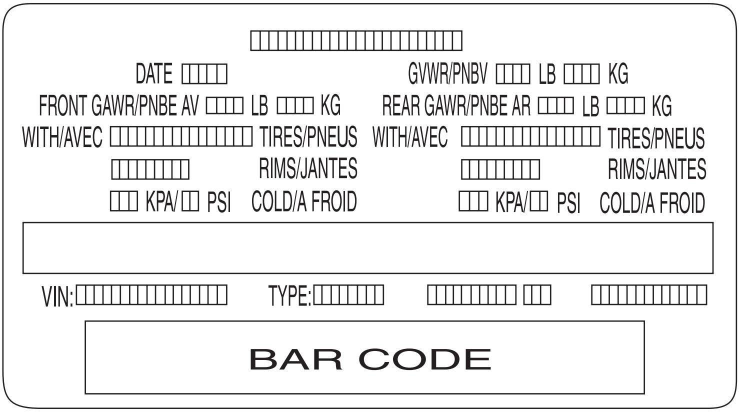
GAWR (Gross Axle Weight Rating) is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The total load on each axle must never exceed its GAWR.**



GVW (Gross Vehicle Weight) is the Vehicle Curb Weight **+** cargo **+** passengers.

GVWR (Gross Vehicle Weight Rating) is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The GVW must never exceed the GVWR.**

SAMPLE



DATE　　GVWR/PNBV LB KG

FRONT GAWR/PNBE AV LB KG　　REAR GAWR/PNBE AR LB KG

WITH/AVEC TIRES/PNEUS　　WITH/AVEC TIRES/PNEUS

RIMS/JANTES　　RIMS/JANTES

KPA/ PSI COLD/A FROID　　KPA/ PSI COLD/A FROID

VIN:　　TYPE:

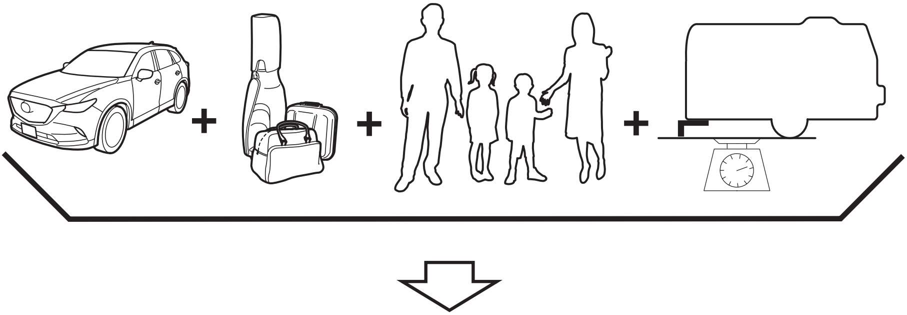
BAR CODE

⚠ WARNING

Never Exceed Axle Weight Rating Limits:

> *Exceeding the Safety Certification Label axle weight rating limits is dangerous and could result in death or serious injury as a result of substandard vehicle handling, performance, engine, transmission and/or structural damage, serious damage to the vehicle, or loss of control.*
>
> *Always keep the vehicle within the axle weight rating limits.*

Tire Information (U.S.A.)



GCW

GCW (Gross Combination Weight) is the weight of the loaded vehicle (GVW) plus the weight of the fully loaded trailer.

GCWR (Gross Combination Weight Rating) is the maximum allowable weight of the vehicle and the loaded trailer - including all cargo and passengers - that the vehicle can handle without risking damage. (Important: The towing vehicle's braking system is rated for operation at GVWR, not at GCWR. Separate functional brakes should be used for safe control of towed vehicles and for trailers weighing more than 1,500 lbs). **The GCW must never exceed the GCWR.**

Maximum Loaded Trailer Weight is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with only mandatory options, no cargo (internal or external), a tongue load of 10-15% (conventional trailer) or king pin weight of 15-25% (fifth-wheel trailer), and driver only (150 lbs). **Consult your dealership (or the RV and Trailer Towing Guide provided by your dealership) for more detailed information.**
Tongue Load or Fifth-Wheel King Pin Weight refers to the amount of the weight that a trailer pushes down on a trailer hitch.

Examples: For a 5000 lb conventional trailer, multiply 5000 by 0.10 and 0.15 to obtain a proper tongue load range of 500 to 750 lbs. For an 11,500 lb fifth-wheel trailer, multiply by 0.15 and 0.25 to obtain a proper king pin load range of 1,725 to 2,875 lbs.

⚠ WARNING

Never Exceed GVWR or GAWR Specifications:

Exceeding the GVWR or the GAWR specified on the certification label is dangerous. Exceeding any vehicle rating limitation could result in a serious accident, injury, or damage to the vehicle.

Do not use replacement tires with lower load carrying capacities than the originals because they may lower the vehicle's GVWR and GAWR limitations. Replacement tires with a higher limit than the originals do not increase the GVWR and GAWR limitations. Never exceed the GVWR or the GAWR specified on the certification label.

Steps for Determining the Correct Load Limit

Steps for Determining Correct Load Limit-

(1) Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.” on your vehicle's placard.
(2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
(3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
(4) The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 - 750 (5 × 150) = 650 lbs.)
(5) Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
(6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Declaration of Conformity

▼Keyless Entry System/Immobilizer System

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

FCC/IC

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

Le présent appareil est conforme aux la Partie 15 des règles de la FCC et CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

(MEXICO)

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Declaration of Conformity

▼Blind Spot Monitoring (BSM)

（U.S.A）
FCC ID : OAYSRR3A
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Warning
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

（Canada）
Applicable law : Canada 310
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Frequency bands : 24.05 - 24.25GHz
Output power : less than 20 milliwatts

Droit applicable : Canada 310
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
Bandes de fréquences : 24.05 - 24.25GHz
Puissance émise : Moins de 20 milliwatts

（Mexico）
Continental SRR3-A
Certificado de homologacion:
Este equipo opera a titulo secundario, consecuentemente, debe aceptar interferencias perjudiciales incluyendo equipos de la misma clase y puede no causar interferencias a sistemas operando a titulo primario.
Cofetel notice:
“La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.”

NOTE

During printing time of this user manual the approvals listed above are granted.

⚠ WARNING

Change or modifications not expressively approved by the party responsible for compliance could void the use's authority to operate the equipment.

▼HomeLink Wireless Control System

⚠ CAUTION

HomeLink has been tested and complies with FCC and Industry Canada rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

NOTE

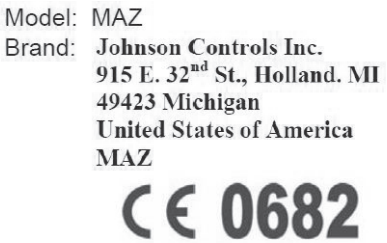
FCC ID: NZLMOBHL4
CANADA:4112A-MOBHL4
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1- This device may not cause harmful interference, and
2- This device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

▼Bluetooth® Hands-Free

Type A

U.S.A. and Canada



Model: MAZ
Brand: **Johnson Controls Inc.**
915 E. 32nd St., Holland. MI
49423 Michigan
United States of America
MAZ

CE 0682

FCC ID: CB2MBLUEC09 IC:279B-MBLUEC09
This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.
Operation is subject to the following conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

⚠ WARNING

> *Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

The term “IC: ” before the radio certification number only signifies that Industry Canada technical specifications were met.
The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
Mazda Bluetooth® Hands-Free Customer Service

- U.S.A.
  Phone: 800-430-0153 (Toll-free)
  Web: www.mazdausa.com/mazdaconnect
- Canada
  Phone: 800-430-0153 (Toll-free)
  Web: www.mazdahandsfree.ca

Mexico

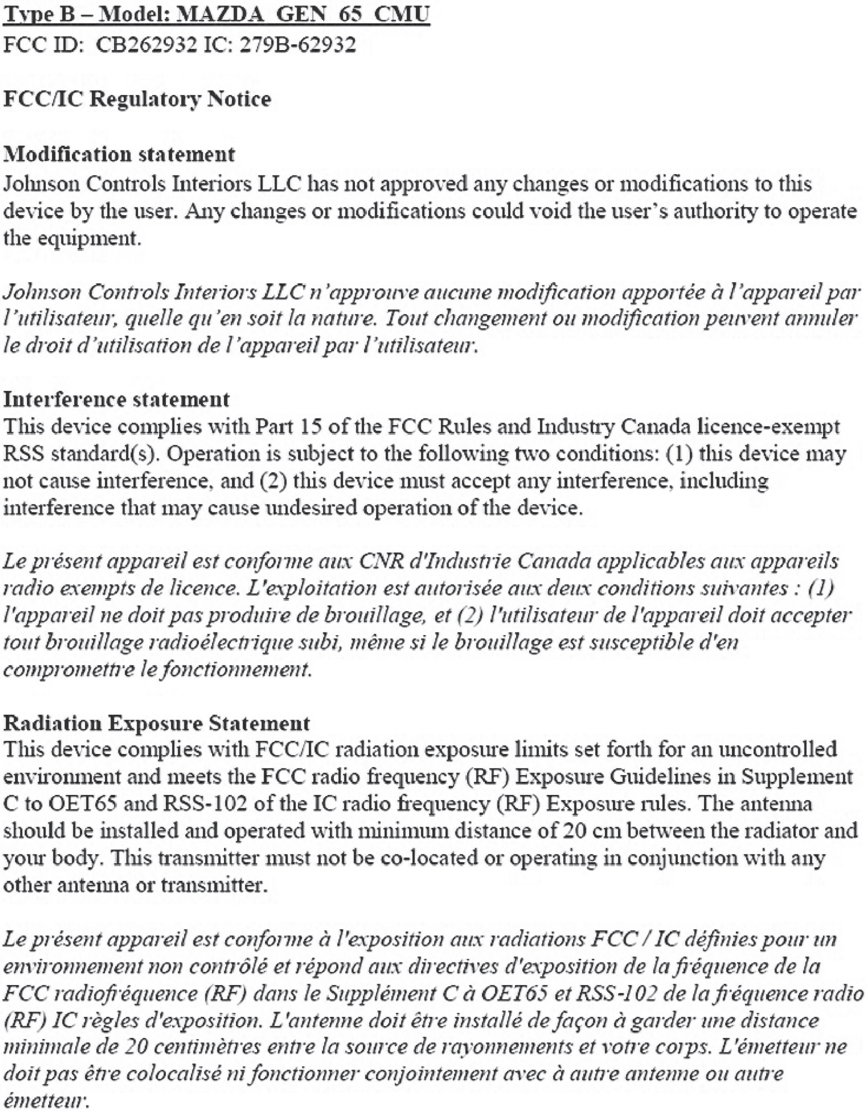
'Para cumplimiento de la Cofetel:
La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo
la que pueda causar su operación no deseada”

- Brief description: Bluetooth module for Hands-free telephone and streaming audio
- Name and address of the importer: Refer to "MEXICO" (page 8-12) in Importer/Distributor section.
- Brand name of the product: Johnson Controls Inc.
- Model name of the product: MAZ
- Names and addresses of where the warranty can be served: Refer to "MEXICO" (page 8-12) in Importer/Distributor section.
- Names and addresses of where to acquire spare parts, consumables and accessories: Refer to "MEXICO" (page 8-12) in Importer/Distributor section.
- Warranty period, items covered by the warranty and its possible limitations or exceptions: Refer to the Warranty Booklet for detailed warranty information.
- Warranty procedure:
  Center of Attention to Client (CAC)
  Phone: 01-800-01-MAZDA
  Web: www.mazdamexico.com.mx
- Electrical specifications:
  Voltage: 9-16V, Frequency: 2.4Ghz, Current: 270mA(Typ)

Declaration of Conformity

Type B

U.S.A. and Canada



Type B – Model: MAZDA_GEN_65_CMU
FCC ID: CB262932 IC: 279B-62932

FCC/IC Regulatory Notice

Modification statement
Johnson Controls Interiors LLC has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Johnson Controls Interiors LLC n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Interference statement
This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement
This device complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / IC définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) dans le Supplément C à OET65 et RSS-102 de la fréquence radio (RF) IC règles d'exposition. L'antenne doit être installé de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

Mexico

NOM

RCPJOMA13-1301

Declaration of Conformity

▼Mazda Radar Cruise Control (MRCC)/Distance Recognition Support System (DRSS)/Smart Brake Support (SBS)

FCC ID: HYQDNMWR006

NOTE:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received,including interference that may cause undesired operation.

FCC WARNING:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiofrequency radiation exposure Information:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance of 20 cm between the radiator (antenna) and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE:
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio
frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

NOTE:
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC.
Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps.

9 Specifications

Technical information about your Mazda.

Identification Numbers 9-2
Vehicle Information Labels 9-2

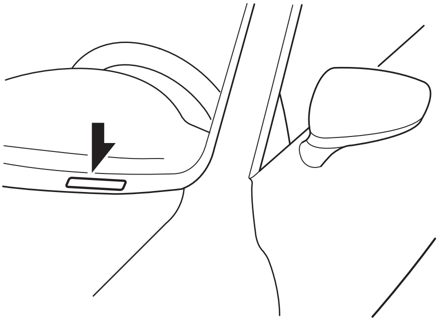
Specifications 9-4
Specifications 9-4

Personalization Features 9-11
Personalization Features 9-11

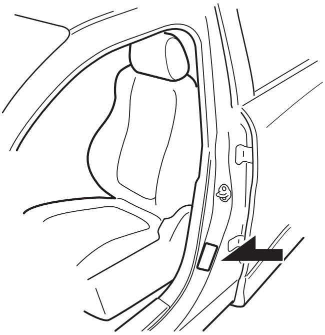
Vehicle Information Labels

▼Vehicle Identification Number

The vehicle identification number legally identifies your vehicle. The number is on a plate attached to the cowl panel located on the left corner of the dashboard. This plate can easily be seen through the windshield.

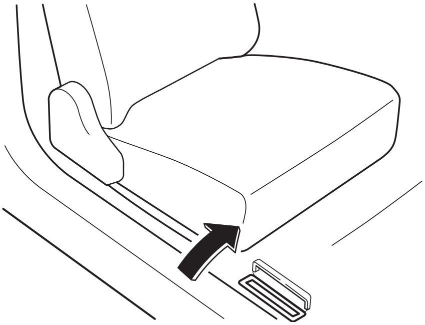


▼Motor Vehicle Safety Standard Label (U.S.A. and Canada)

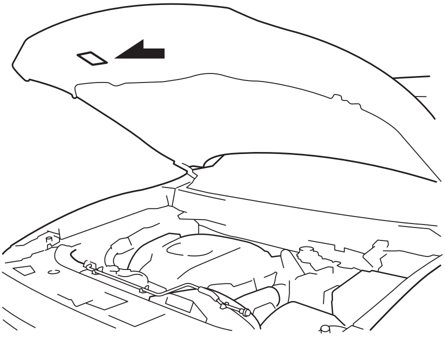


▼Chassis Number

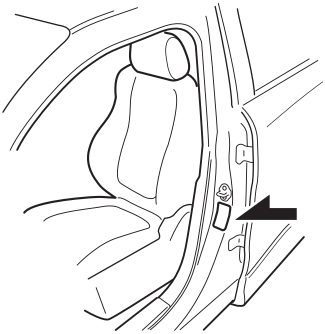
Open the cover shown in the figure to check the chassis number.



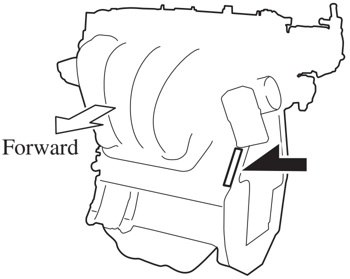
▼Vehicle Emission Control Information Label (U.S.A. and Canada)



▼Tire Pressure Label



▼Engine Number



Specifications

Specifications

▼Engine

Item	Specification
Type	DOHC-16V in-line, 4-cylinder
Bore × Stroke	89.0 × 100 mm (3.50 × 3.94 in)
Displacement	2,488.5 ml (2,488.5 cc)
Compression ratio	10.5

▼Electrical System

Item	Classification	
Battery	12V-60Ah/20HR or 12V-65Ah/20HR	
Spark-plug number	Mazda Genuine spark plug[*1]	PY8V-18-110

[*1] The spark plugs provide the SKYACTIV-G its optimum performance. Consult an Authorized Mazda Dealer for details.

⚠ CAUTION

When cleaning the iridium plugs, do not use a wire brush. The fine particulate coating on the iridium alloy and platinum tips could be damaged.

▼Lubricant Quality

Lubricant	Classification
Engine oil	Refer to Recommended Oil on page 6-26.
Coolant	FL-22 type
Automatic transaxle fluid	Mazda Genuine ATF FZ
Transfer case oil	Mazda Long Life Hypoid Gear Oil SG1
Rear differential oil	Mazda Long Life Hypoid Gear Oil SG1
Brake fluid	SAE J1703 or FMVSS116 DOT-3

NOTE

Refer to Introduction on (page 6-2) for owner's responsibility in protecting your investment.

DEP DEALER ePROCESS

Specifications

▼Capacities

(Approximate Quantities)

Item		Capacity
Engine oil	With oil filter replacement	4.8 L (5.1 US qt, 4.2 Imp qt)
	Without oil filter replacement	4.6 L (4.9 US qt, 4.0 Imp qt)
Coolant	U.S.A. and Canada	9.9 L (10.5 US qt, 8.7 Imp qt)
	Mexico	9.8 L (10.4 US qt, 8.6 Imp qt)
Automatic transaxle fluid		8.0 L (8.5 US qt, 7.0 Imp qt)
Transfer case oil		0.45 L (0.48 US qt, 0.40 Imp qt)
Rear differential oil		0.45 L (0.48 US qt, 0.40 Imp qt)
Fuel tank	2WD	72.0 L (19.0 US gal, 15.8 Imp gal)
	AWD	74.0 L (19.5 US gal, 16.3 Imp gal)

Check oil and fluid levels with dipsticks or reservoir gauges.

▼Dimensions

U.S.A. and Canada

Item	Vehicle specification
Overall length	5,075 mm (199.8 in)
Overall width	1,969 mm (77.5 in)
Overall height	1,752 mm (69.0 in)
Front tread	1,663 mm (65.5 in)
Rear tread	1,663 mm (65.5 in)
Wheelbase	2,930 mm (115.4 in)

Mexico

Item	Vehicle specification
Overall length	5,075 mm (199.8 in)
Overall width	1,969 mm (77.5 in)
Overall height	1,747 mm (68.8 in)
Front tread	1,663 mm (65.5 in)
Rear tread	1,663 mm (65.5 in)
Wheelbase	2,930 mm (115.4 in)

Specifications

▼Weights

U.S.A. and Canada

Item		Weight	
		2WD	AWD
GVWR (Gross Vehicle Weight Rating)		2,568 kg (5,661 lbs)	2,638 kg (5,816 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,217 kg (2,683 lbs)	1,241 kg (2,736 lbs)
	Rear	1,386 kg (3,056 lbs)	1,433 kg (3,159 lbs)

Mexico

Item		Weight	
		2WD	AWD
GVW (Gross Vehicle Weight)	Total	2,490 kg (5,489 lbs)	2,555 kg (5,633 lbs)
	Front	1,175 kg (2,590 lbs)	1,195 kg (2,634 lbs)
	Rear	1,315 kg (2,899 lbs)	1,360 kg (2,998 lbs)
GAW (Permissible axle load)	Front	1,210 kg (2,668 lbs)	1,215 kg (2,679 lbs)
	Rear	1,365 kg (3,009 lbs)	1,415 kg (3,120 lbs)

▼Air Conditioner

The type of refrigerant used is indicated on a label attached to the inside of the engine compartment. Check the label before recharging the refrigerant. Refer to Climate Control System on page 5-2.

Item	Classification
Refrigerant Type	HFC134a (R-134a)

▼Light Bulbs

Exterior light

With Adaptive Front Lighting System (AFS)

Light bulb		Category	
		Wattage	UNECE[*1](SAE)
Headlights	High beam	LED[*2]	— (—)
	Low beam	LED[*2]	— (—)
Daytime running lights/Parking lights		LED[*2]	— (—)
Front side-marker lights		LED[*2]	— (—)
Front turn signal lights		LED[*2]	— (—)
Fog lights		LED[*2]	— (—)
Signature wing illumination*		LED[*2]	— (—)
Side turn signal lights		LED[*2]	— (—)
High-mount brake light		LED[*2]	— (—)
Rear turn signal lights		21	WY21W (7443NA)
Rear side-marker lights		LED[*2]	— (—)
Brake lights/Taillights		LED[*2]	— (—)
Brake lights		LED[*2]	— (—)
Taillights		LED[*2]	— (—)
Reverse lights		18	W16W (921)
License plate lights		5	W5W (—)

*1 UNECE stands for United Nations Economic Commission for Europe.
*2 LED is the abbreviation for Light Emitting Diode.

*Some models.

Specifications

Without Adaptive Front Lighting System (AFS)

Light bulb		Category	
		Wattage	UNECE*1(SAE)
Headlights	High beam	LED*2	— (—)
	Low beam	LED*2	— (—)
Daytime running lights		LED*2	— (—)
Parking lights/Front side-marker lights		5	WY5W (—)
Front turn signal lights		21	WY21W (7443NA)
Fog lights*		LED*2	— (—)
Side turn signal lights		LED*2	— (—)
High-mount brake light		LED*2	— (—)
Rear turn signal lights		21	WY21W (7443NA)
Rear side-marker lights		LED*2	— (—)
Brake lights/Taillights		LED*2	— (—)
Brake lights		LED*2	— (—)
Reverse lights		18	W16W (921)
License plate lights		5	W5W (—)

*1 UNECE stands for United Nations Economic Commission for Europe.
*2 LED is the abbreviation for Light Emitting Diode.

Interior light

Light bulb		Category	
		Wattage	UNECE*1
Overhead lights (Front)/Map lights (Front)	Bulb type	8	—
	LED type	LED*2	—
Map lights (Center)	Bulb type	8	—
	LED type	LED*2	—
Overhead light (Rear)	Bulb type	10	—
	LED type	LED*2	—
Ambient lights		LED*2	—
Vanity mirror lights*		2	—
Luggage compartment light	Bulb type	8	—
	LED type	LED*2	—

*1 UNECE stands for United Nations Economic Commission for Europe.
*2 LED is the abbreviation for Light Emitting Diode.

Specifications

▼Tires

NOTE

The tires have been optimally matched with the chassis of your vehicle.
When replacing tires, Mazda recommends that you replace tires of the same type originally fitted to your vehicle. For details, contact an Authorized Mazda Dealer.

Check the tire pressure label for tire size and inflation pressure.
Refer to Tire Inflation Pressure on page 6-43.
After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operate normally.
Refer to Tire Pressure Monitoring System Initialization on page 4-153.

Standard tire

(U.S.A. and Canada)

Tire size	Inflation pressure	
	Front	**Rear**
P255/60R18 107H	230 kPa (34 psi)	230 kPa (34 psi)
P255/50R20 104V	230 kPa (34 psi)	230 kPa (34 psi)

(Mexico)

Tire size		Inflation pressure	
		Up to 3 persons	**—Full load**
P255/60R18 107H	Front	230 kPa (2.3 bar, 33 psi)	230 kPa (2.3 bar, 33 psi)
	Rear	230 kPa (2.3 bar, 33 psi)	230 kPa (2.3 bar, 33 psi)
P255/50R20 104V	Front	230 kPa (2.3 bar, 33 psi)	230 kPa (2.3 bar, 33 psi)
	Rear	230 kPa (2.3 bar, 33 psi)	230 kPa (2.3 bar, 33 psi)

Temporary spare tire

(U.S.A. and Canada)

Tire size	Inflation pressure
T155/90D17 101M	420 kPa (60 psi)

(Mexico)

Tire size	Inflation pressure
185/80R17 99M	320 kPa (3.2 bar, 46 psi)

Specifications

Lug nut tightening torque

When installing a tire, tighten the lug nut to the following torque.
108—147 N·m (12—14 kgf·m, 80—108 ft·lbf)

▼Fuses

Refer to Fuses on page 6-56.

Personalization Features

The following personalization features can be set or changed by the customer or an Authorized Mazda Dealer. Consult an Authorized Mazda Dealer for details.
Additionally, some of the personalization features can be changed by the customer depending on the feature.
Personalization features and settings which can be changed differ depending on the market and specification.

Settings Change Method

① **Settings can be changed by operating the center display screen.**
A: Refer to Settings on page 5-71.
B: Refer to Fuel Economy Monitor on page 4-77.
C: Refer to Active Driving Display on page 4-29.

② **Settings can be changed by operating the vehicle switches.**
D: Refer to Auto Lock/Unlock Function on page 3-17.
E: Refer to Transmitter on page 3-4.
F: Refer to Locking, Unlocking with Request Switch (With the advanced keyless function) on page 3-13.

③ **Settings can be changed by an Authorized Mazda Dealer.**

Item	Feature	Factory Setting	Available Settings	Settings Change Method		
				①	②	③
Safety						
Smart City Brake Support (SCBS) (page 4-128)	The system can be changed so that Smart City Brake Support (SCBS) does not operate.[*1]	On	On/Off	A	—	×
Smart Brake Support (SBS) (page 4-133)	The system can be changed so that Smart Brake Support (SBS) does not operate.[*1]	On	On/Off	A	—	×
	The distance at which the collision warning activates can be changed.	Near	Near/Far	A	—	×
	The volume of the collision warning can be changed.	High	High/Low/Off	A	—	×

Personalization Features

Item	Feature		Factory Setting	Available Settings	Settings Change Method		
					①	②	③
Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) (page 4-116)	The system can be changed so that the steering wheel assist does not operate.		On	On/Off	A	—	×
	When the steering wheel operation assistance is turned on	The sensitivity of the steering assistance for the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) can be changed.	High	High/Low	A	—	×
		The system can be changed so that the lane departure warning does not activate.	On	On/Off	A	—	×
	When the steering wheel operation assistance is turned off	The warning timing in which the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) system determines that the vehicle may be deviating from its lane can be changed.	On_Line	Automatically/ Inside_Line/ On_Line/ Outside_Line	A	—	×
		The sensitivity of the warning for the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) can be changed.	LO	High/Mid_LO/ LO	A	—	×
	The type of Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning can be changed.		Vibration	Vibration/Beep/ Rumble	A	—	×
	The warning intensity/ volume of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) system can be changed.	Vibration	Low	High/Low	A	—	×
		Rumble	Low	High/Mid/Low	A	—	×
		Beep	Low	High/Low	A	—	×
Blind Spot Monitoring (BSM) (page 4-91)	Warning beep volume[*2]		High	High/ Low/ Off	A	—	×

Item	Feature	Factory Setting	Available Settings	Settings Change Method		
				①	②	③
Distance Recognition Support System (DRSS) (page 4-97)	The system can be changed so that Distance Recognition Support System (DRSS) does not operate.*1	On	On/Off	A	—	×
	The distance at which the vehicle ahead and your vehicle indicated in the display flashes in white can be changed.	Near	Far/Medium/ Near	A	—	×
Vehicle						
Door locks (page 3-17)	Operation condition of auto lock/unlock function	Lock: When Driving Unlock: IGN Off	Lock: When Driving Unlock: In Park/ Lock: Out of Park Unlock: In Park/ Lock: Shifting Out of Park/ Lock: When Driving Unlock: IGN Off/ Lock: When Driving/ Off	A	D	×
Keyless entry system (page 3-3)	Method for unlocking door using transmitter	Driver's: Once, All Doors: Twice	All Doors: Once/ Driver's: Once, All Doors: Twice	A	E	×
	Time for locking door automatically	60 seconds	90 seconds/ 60 seconds/ 30 seconds	A	—	×
Advanced keyless entry system (page 3-9)	Method for unlocking door using request switch/ transmitter	Driver's: Once, All Doors: Twice	All Doors: Once/ Driver's: Once, All Doors: Twice	A	E, F	×
	Time for locking door automatically	60 seconds	90 seconds/ 60 seconds/ 30 seconds	A	—	×
	Auto-lock function operation/non-operational	Off	On/Off	A	—	×
	Beep volume when locking/unlocking	Medium	High/ Medium/ Low/ Off	A	E, F	×

Personalization Features

Item	Feature	Factory Setting	Available Settings	Settings Change Method		
				①	②	③
Illuminated entry system (page 5-86)	Time until interior lights turn off after closing door	15 seconds	60 seconds/ 30 seconds/ 15 seconds/ 7.5 seconds	A	—	✕
	Time until interior lights turn off automatically when any door is not closed completely	30 minutes	60 minutes/ 30 minutes/ 10 minutes	A	—	✕
Auto-wiper control (page 4-55)	Operational/non-operational	On	On/Off[*3]	A	—	✕
Daytime running lights (page 4-53)	Operational/non-operational	On	On/Off	—	—	✕
Auto headlight off[*4] (page 4-48)	Time until headlights turn off	30 seconds	120 seconds/ 90 seconds/ 60 seconds/ 30 seconds/ Off[*5]	A	—	✕
Auto-light control (page 4-48)	Timing by which lights turn on	Medium	Light/ Medium Light/ Medium/ Medium Dark/ Dark	A	—	✕
High Beam Control System (HBC) (page 4-88)	Operational/non-operational[*1]	On	On/Off	A	—	✕
Adaptive Front Lighting System (AFS) (page 4-87)	Operational/non-operational[*1]	On	On/Off	A	—	✕
Lights-on reminder[*6] (page 7-45)	Warning beep volume	Off	High/Low/Off	A	—	✕
Coming home light (page 4-52)	Time until headlights turn off	30 seconds	120 seconds/ 90 seconds/ 60 seconds/ 30 seconds/ Off	A	—	✕
Leaving home light (page 4-53)	Operational/non-operational	On	On/Off	A	—	✕
Turn indicator (page 4-54)	Beep volume	High	High/Low	A	—	✕

Item	Feature	Factory Setting	Available Settings	Settings Change Method		
				①	②	③
Three-flash turn signal (page 4-55)	Operational/non-operational	On	On/Off	A	—	×
Ambient Lighting (page 5-83)	Ambient lights brightness[*7]	Medium	Bright/ Medium/ Dark/ Off[*8]	A	—	×
Rear window defogger (page 4-60)	The operation time for the rear window defogger can be changed.	15 minutes	15 minutes/ Continuous[*9]	—	—	×
System						
Language	Language indicated in display	English	Depends on market[*10]	A	—	×
Temperature	Temperature unit indicated in display	°F or °C	°F/°C	A	—	×
Distance	Distance unit indicated in display	mi or km	mi/km	A	—	×
Fuel Economy Monitor (page 4-77)						
Ending display	On/off	Off	On/Off	B	—	×
Fuel economy resetting procedure	Linkage/non-linkage with fuel economy reset and trip meter reset	Off	On/Off	B	—	×
Active driving display (page 4-29)						
Turn by turn (TBT)	Display of turn by turn (TBT) can be turned off.	On	On/Off	C	—	×
Street name	Display timing of street name can be changed.	On-Demand	Off/Always/ On-Demand	C	—	×

*1 Though these systems can be turned Off, doing so will defeat the purpose of the system and Mazda recommends that these systems remain On.
*2 Only the volume of the warning beep during Blind Spot Monitoring (BSM) operation can be changed. The volume of the warning beep during Rear Cross Traffic Alert (RCTA) operation cannot be changed.
*3 If the auto-wiper control is set to Off, the wiper lever **AUTO** position is set to intermittent operation.
*4 If the setting is changed to Off, the following operation is performed according to the headlight switch position:

- At **AUTO** position: Headlights turn off immediately after the ignition is switched off.
- At any position other than **AUTO**: Headlights on/off conditions vary according to the headlight switch position. Refer to Headlights on page 4-48.

*5 When set to Off, the lights-on reminder is operable.
*6 The lights-on reminder settings can be changed at anytime, however, the lights-on reminder only operates when the auto headlight function is set to Off. Refer to Lights-On Reminder on page 7-45.
*7 Change the ambient light illumination level with the parking lights or headlights turned on.
*8 When set to OFF, the ambient lights remain turned off regardless of whether of not the parking lights or headlights are on or off. However, they will turn on or off in conjunction with the illuminated entry system.
*9 The operation may stop in 15 minutes due to the effect of the outside temperature even if the operation time of the rear window defogger has been changed to Continuous.
*10 Available only in display from the center display.

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